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INTRODUCTION

The Research Proposal Quarterly Status Report is published quarterly (March, June, September, and December) by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR during the past six months along with the action taken (Initiated, Declined or Withdrawn on each The report is divided into two parts. The Institution Index lists proposals alphabetically by institution. This is followed by a more detailed listing by Directorate, and by Program Manager within the Directorate.

PURPOSE

AFOSR and the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be considered as scientifically unacceptable; many declinations result from a lack of funds or This report is designed to inform other Government sponsoring agencies of the proposals received by the as a result of special programatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of To sponsor and sustain basic research and ensure access to research results in support of the Air Force goals of control and maximum utilization of air and space. organized under the Director, Science and Technology, Air Force Materiel Command. fundamental scientific research.

originating from scientists investigating problems involving the search for new knowledge and the expansion AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from proposals received in response to the Broad Agency Announcement of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance of science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

Title - The title of the research proposal.

Institution - The organization, (e.g., college/university, company) at which the research will be conducted.

Investigator - The Principal Investigators proposing the research.

Type - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

Months - The duration of the research proposal.

Received - The month and year in which the AFOSR received the proposal.

Amount - The funds requested of the AFOSR for support of the research proposal.

Status - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding. D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.
- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at proposer's request.

Program Manager - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

Proposal # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

Initiate - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

Start Date - The recommended date for commencement of the research.

Total Amount - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

PART 1

INSTITUTION INDEX (1 JAN 95 - 31 MAR 95) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH CTATHS AND ACCEPTED BOTH A DECEMBED BY

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AFOSR/Far East	Ogata	Naoya		95-NL-138		LEE
Advanced Ceramics Reseach	Boulton	Jonathan		95-NA-175		WARD
Advanced Technology Materials Inc.	Powell	Adrian		95-NE-150		PONRENKE
				95-NE-157		PONRENKE
,	Redeing	Joan		95-NE-149		POMKENKE
Aerodyne Kesearch Inc		Sar Cons		95-ML-113	,	DEKRAN
Air Force Institute of Technology	Bridgeman	George	,	010-1N-96	< ⋅	SHELDON
	Lott	James	<	95-NI-011	4	ZARBO
	Suter	Bruce		95-NH-167	<	SJOGREN
Air Force Office of Scientific Research	Hughes	Chris	63	95-X0-001	⋖	HUGHES
Air Materiel Command	Hoore	Robert		95-NA-189	<	3
Alfred University	Leigh	Wallace	63	95-NI-030	<	SHELDON
American Physiological Society	Frank	Hartin		95-NL-116		HADDAD
	Colton	Richard	7	95-NE-180	α	MEINSTOCK
	Helava	Heikki		95-NE-171		POMRENKE
Arizona State University	Mathine	David	٦,	95-NE-207	⋖	CRAIG
Army Research Office	Chen	Edward	s	95-NA-166	⋖	WARD
	Hann	David		95-NA-147	«	TISHKOFF
Arnold Engineering Development Center	Tennent	Scott		95-NA-148	<	SAKELL
Astralux	Leksono	Moel Janto	31	95-NE-147		POMRENKE
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	Qiu	Chang-hua		95-NE-152		POMRENKE
	Walker	Christopher		95-NE-146		POMRENKE
Auburn University	Jang	Bor	7	95-NL-119		LEE
	Rao	Sadasiva	x	95-NM-184		NACHHAN
Barnard College of Columbia University	Silver	Rae		95-NL-127		HADDAD
Battelle Pacific Northwest Laboratories	Whiteman	C. David		95-NM-151		KROLL
Boston University	Castanon	David	⋖	95-NM-196		SJOGREN
	Grossberg	Stephen		95-NL-135		TANGNEY
Brimrose Corp. of America	Jagannathan	•	>	95-NE-153		POMRENKE
Brown University	Cooper	David		95-NM-212		SJOGREN
CHEMAT TECHNOLOGY INC	Ting	Su-Jen		95-NA-172		MARD
CMS Consulting	Sinha	Amarendra		95-NE-187		KELLEY
California Institute of Technology	Bruno	Oscar		95-NM-176		NACHMAN
	Psaltis	Demetri		95-NE-183		CRAIG
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Cascade Display & Electronics	DelaRosa	Mark		5-NE-20		POMRENKE
Case Western Reserve University	Reshotko	Eli		5-NA-13		MCMICHAEL
Clay*s	Clay	John	۵.	95-NE-200		POMRENKE
Clemson University	Butler	Chalmers	ĸ	95-NM-193		NACHMAN
Cognitech Inc	Osher	Stanley		95-NM-149	⋖	NACHHAN
Colorado School of Mines	Olhoeft	Gary	œ	95-NA-162	⋖	LEHIS
Columbia University	poobso	Richard	×	95-NE-184	⋖	SCHLOSSBER
Compton Research Laboratory Inc	Nardi	Vittorio		95-NE-139	∢	BARKER
Consulter Scientific Inc	Hunter	Scott	œ	95-NE-172		POMRENKE
Containerless Research Inc	Weber	Richard		95-NA-174		MARD
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	Uigital Physics Associates	Nachamkin	Jack		95-NE-186		KELLEY
	Duke University	Schaeffer	David		95-NM-215		NACHMAN
		Trangenstein	John	A	95-NA-191		LEWIS
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	Engineering Foundation	Freiman	Charles	•	95-NE-222	a	SCHLOSSBER
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		Givens	Michael	ā	95-NE-167		POMRENKE
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,	Harvard University	Johnsson	S. Lennart		95-NM-143	⋖	SCHRECK
		StromeyerIII	Charles	ıL			TANGNEY
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	Illinois Institute of Technology	200	ı	•	5-NE-17	•	POWRENKE
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	Institute for Perception RVO-TNO	Valeton	Jean	×	95-E0-003		BRADSHAW
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	Sacks	Paul		95-NM-155		NACHMAN
JC Monzon	Monzon	Cesar		95-NE-189		KELLEY
Jackson State University	Leszczynski	Jerzy		95-NL-167		BERMAN
	Sun	Kunguan		95-NE-219	a	MEINSTOCK
John Hopkins University Center	POTEMBER	RICHARD	S	95-NI-014	⋖	HHITE
Johns Hopkins University	Katz	Joseph	_	95-NL-157		DELONG
	Heng	Ching	-	95-NH-152		RADOSKI
	Yarkony	David	œ	95-NL-131		BERMAN
Kansas State University	Ramm	Alexander		95-NM-209		SJOGREN
	Setser	Donald	3	95-NL-133		BERMAN
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	Grafman	Jordan		95-NL-137	0	HADDAD
	Snodgrass	Joan	y	95-NL-118		TANGNEY
North Carolina Central University	Dutta	J. M.		95-NM-144	⋖	KROLL
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	LAST NAME	FIRST NAME	MIDDLE			
	Shearer	Michael		95-NM-156		NACHMAN
Northeastern University	Rappaport	Carey	×	95-NM-191		NACHMAN
Northwestern University	Bazant	Zdenek	a.			n,
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	Graham	Gary	I	95-NI-026	<	SHELDON
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Optical Society of America	Hennage	David	3	95-NE-224	<	CRAIG
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Pennsylvania State University	Span at		Œ	95-NL-115	<	COLLINS
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	Ray	Asok		95-NA-149		JONES
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	Rawlins	W. Terry		95-NL-121		BERMAN
Princeton University		•		95-NA-179		JONES
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	Hillberry	Ben	Œ	95-NA-180		JONES
Quantum Epitaxial Designs, Inc.	Massie	Scott		95-NE-162		POMRENKE
Rensselaer Polytechnic Institute	Birnboim	Meyer	I	95-NI-009	⋖	SHELDON
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San Francisco State University	2	T	=	95-NI-108	•	TORKERNE FOXING
Saphikon Inc	Collins	Joseph	×	95-NA-173	¢	
Scripps Institution Of Oceanography	Reynolds	George	: I	95-NA-171		28.0
Southern Illinois University	Ferguson	Eva	0	95-NL-114		TANGNEY
Spectra Diode Laboratories, Inc	Zhao	Hansin		95-NE-204		POMRENKE
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of Illinois of Maine of Maryland of Maryland School Of Med of Maryland School Of Med of Michigan of Missouri of New Mexico of New Mexico of North Carolina of Rochester of South Florida of Southern California of Southern California of Southern California of Southern California	INVESTIGATOR LAST NAME Gaines Chew Harriss Huang Padua Gupta Chellappa Christou Milchberg PECHT Sirkis Formby Riseman Khargonekar LIKER Volakis Waas	PERST NAME Jumes Jumes Jumes Jumes Rames Armes Anthony Sham	MIDDLE S E S E C E E	95-NL-110 95-NM-188 95-NM-154 95-NM-198	STATUS	PM NAME
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of Maryland School Of Med of Massachusetts of Michigan of Missouri of New Mexico of New Mexico of Pennsylvania of Rochester of South Florida of Southern California of Southern California	Christou Milchberg PECHT Sirkis Formby Riseman Khargonekar LIKER Volakis Waas	Aristos Howard James Craig Edward Pramod JEFFREY John Mitchell	E 0 EC	95-NM-197		SJOGREN
of Maryland School Of Med of Massachusetts of Michigan of Missouri of New Mexico of New Mexico of Pennsylvania of Rochester of South Florida of Southern California of Southern California	Milchberg PECHT Sirkis Formby Riseman Khargonekar LIKER Volakis Waas	Howard NICHAEL James Craig Edward Pramod JEFFREY John Anthony Shawn	E O EC	95-NL-150		LEE
of Maryland School Of Med of Massachusetts of Michigan of Minnesota of Missouri of New Mexico of New Mexico of Rochester of South Florida of Southern California of Southern California	PECHT Sirkis Formby Riseman Khargonekar Liker Volakis Waas Curley	MICHAEL James Craig Edward Prawod JEFFREY John Anthony Shawn	ν Ε ε .	95-NE-182		SCHLOSSBER
of Maryland School Of Med of Massachusetts of Michigan of Minnesota of Missouri of Pennsylvania of Rochester of South Florida of Southern California of Southern California	Sirkis Formby Riseman Khargonekar Liker Volakis Waas	James Craig Edward Pramod JEFFREY John Anthony Shawn	ν Ε ε .			WHITE
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of Minnesota of Minnesota of Missouri of New Mexico of North Carolina of Rochester of South Florida of Southern California of Texas of Texas of Texas	Kiseman Khargonekar Liker Volakis Waas Curley	Praesd JEFFREY John Anthony Shaen	E Q.	95-NL-145		TANGNEY
of Minnesota of Missouri of North Carolina of Rochester of South Florida of Southern California of Texas of Texas	LIKER LIKER Volakis Waas Curley	JEFFREY John Anthony Shawn Mitchell		CAT-HN-CA		SJOCKEN
of Minnesota of Missouri of New Mexico of North Carolina of Rochester of South Florida of Southern Cal School of Eng of Southern California of Texas of Texas	Volakis Waas Curley	John Anthony Shawn Mitchell		95-NH-147	•	SACOBS
of Minnesota of Missouri of New Mexico of North Carolina of Pennsylvania of Rochester of Southern Cal School of Eng of Southern California of Texas of Texas	Haas	Anthony Shawn Mitchell		95-NH-197		NACHMAN
of Missouri of New Mexico of North Carolina of Pennsylvania of Rochester of Southern Cal School of Eng of Southern California of Texas of Texas	Curley	Shawn	×	95-NA-177		JONES
of Missouri of North Carolina of Pennsylvania of Rochester of South Florida of Southern Cal School of Eng of Southern California of Texas of Texas	•	Mitchell		95-NL-117		TANGNEY
of Missouri of New Mexico of North Carolina of Pennsylvania of South Florida of Southern Cal School of Eng of Southern California of Texas of Texas	Luskin			95-NM-178		NACHMAN
of Missouri of New Mexico of North Carolina of Pennsylvania of South Florida of Southern Cal School of Eng of Southern California of Texas of Texas	Teel	Andres	œ	95-NM-164		JACOBS
of New Mexico of North Carolina of Pennsylvania of South Florida of South Florida of Southern Callfornia of Texas	Birman	Victor		95-NA-139		JONES
of New Mexico of North Carolina of Pennsylvania of South Florida of South Florida of Southern California of Texas of Texas	Holder	Andres	7	95-NL-111		BERHAN
of North Carolina of Pennsylvania of South Florida of Southern Cal School of Eng of Southern California of Texas	Sandreczki	Tom		95-NL-109		LEE
of North Carolina of Pennsylvania of South Florida of Southern Cal School of Eng of Southern California of Texas	Whitefield	Philip	9	95-NL-132		BERMAN
of Pennsylvania of South Florida of Southern Cal School of Eng of Southern California of Texas	Cheng	TOTAL	2	95-NE-212		CRAIG
of Rochester of South Florida of Southern Cal School of Eng of Southern California of Texas	1101		E u	95-HI-143		- ANGRE
of Rochester of South Florida of Southern Cal School of Eng of Southern California of Texas	191114		u	95-NL-124	4	
of South Florida of Southern Cal School of Eng of Southern California of Texas of Texas		Campholl		95-MA-153		LADO
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of Southern Cal School of Engoof Southern California of Texas of Texas at Austin	Agramal	Govind	۵.	95-NE-174	<	SCHLOSSBER
of Southern California of Southern California of Texas of Texas at Austin	Mukamel	Shaul		95-NL-120		BERMAN
of Southern California of Southern California of Texas of Texas at Austin	Sanocki	Thomas		95-NL-143		TANGNEY
of Southern California of Texas of Texas at Austin				95-NL-144		TANGNEY
of Texas at Austin		Anupam		95-NE-211	⋖	POMRENKE
of Texas of Texas at Austin	Biederman	Irving		95-NH-159		HAKSHAN
of Texas of Texas at Austin	Dalton	Larry	œ	95-NL-151		LEE
of Texas of Texas at Austin	3			95-NL-172	<	LEE
of Texas of Texas at Austin	Radhukar	Anupas		95-NL-154		LEE
of Texas of Austin	Nevatia	Ramakant	:	95-NH-205	⋖ :	MAKSHAN
of Texas at Austin	Steler	METITTE	E	95-NL-169	4	E.
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	LAST NAME	FIRST NAME	NIDDLE			
Univ of Versont	Yang	Yuanyuan		95-NM-170		GLASSMAN
Univ of Virginia	Giannakis	Georgios	6 0	95-NM-158	a	SJOGREN
Univ of Washington	Nagourney	Warren		95-NE-177		KELLEY
	TSUTSUI	MICHIO		95-NI-020	⋖	WHITE
	Taya	Minoru		95-NA-176		JONES
Univ of Misconsin	Aita	Carolyn	œ	95-NL-160		DELONG
	Booske	John	I	95-NE-135		BARKER
	Botez	Dan		95-NE-214		SCHLOSSBER
	CHAPMAN	THOMAS	38	95-NI-021		WHITE
	Mangasarian	Olvi	_	95-NH-179		GLASSMAN
Univ of Hyoming	Bohle	D. Scott		95-NL-164		BERMAN
University /OxfordDept Engineering Sci	YOUNG	MALCOM	۵.	95-E0-002		BRADSHAW
University City Science Center	LIEBERGOT	HARRIS		95-NI-016	V	BHITE
	Collins	U	60	95-NE-218		KELLEY
University of Tulsa	Lopresti	Peter	g	95-NE-223		SCHLOSSBER
Utah State University	Dennison	7	œ	95-NA-181		JONES
Vactronics Lab Equipment Inc	78	Yue		95-NE-166		POMRENKE
	Fricano	Glenn		95-NE-199		POHRENKE
Wanderbilt University	Cruse	Thomas	•	95-NA-192		24
Virginia Polytechnic Inst & State Univ	Reifsnider	Kenneth	پ	95-NA-151		JONES
Visidyne Inc	Hyntjes	Geert		95-NE-144		SCHLOSSBER
Washington University	Lingle	Christopher	7	95-NL-130		HADDAD
	Sastry	Shankar	T	95-NA-184		JONES
	Stein	Paul S.6.		95-NL-174	-	TANGNEY
Hayne State University	Nemaz	Golam	M.	95-NA-150		JONES
	Sutyrin	Vladishlav		95-NH-213		NACHMAN
West Virginia University Research Corp	Halliburton	Larry	ш	95-NE-208	4	POMRENKE
Westinghouse Electric Corporation	Bluzer	Nathan		95-NE-217		HEINSTOCK
Michita State University	Agarwal	Ramesh	×	95-NH-189		NACHMAN
	Isakov	Victor		95-NM-210		NACHMAN
Morcester Polytechnic Institute	Cyganski	David		95-NM-200		SJOGREN
Wright Lab	Cordell	Tobey	1	95-NA-188	⋖	JONES
	Smith	Patrick		95-NE-133	0	POMRENKE
				95-NE-134	4	POMRENKE
Tale University School of Medicine	Rosner	Daniel	ш	95-NA-145		FUTC

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DIRECTORATE	OF AEROSPACE SCIENCES				
TITLE (CONT.) INSTITUTION	INVESTIGATOR	£ -	TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE Start date Tot and
DEVELOPMENT AND CALIBRATION OF WALL-SHEAR-STRESS SYSTEMS Case Western Reserve University	SS MICROSENSOR Reshotko Eli		N 24 13/01/95 \$436,754	MCMICHAEL 95-NA-135	
COMPUTATION OF UNSTEADY SUPERSONIC FLOWS AROUND Indiana University-Purdue Univ at Indpls	D MOVING BODIES Ecor		N 24 13/01/95 \$99,770	SAKELL 95-NA-136	·
DAMAGE AND FRACTURE IN QUASIBRITTLE MATERIALS: MICRO-MACRO, SCALING AND LOCALIZATION Northwestern University	MICRO-MACRO, Bazant Zdenek		N 36 20/01/95 \$443,373	WU 95-WA-137	
FUNDAMENTAL MODELING OF FUNCTIONALLY GRADED MATERI Structures Massachusetts Institute of Technology Ac	TERIALS AND Acmanus Hugh		N 36 23/01/95 \$247,944	JONES 95-NA-138	
THEORY AND OPTINIZATION OF FUNCTIONALLY GRADED Univ of Missouri	SMART Birman Victor		23/01/95 \$131,609	JONES 95-NA-139	
MICROMECHANICS-BASED DESIGN AND DEVELOPMENT OF Interphase in Metal Matrix composites Pennsylvania State University	MULTILAYERED		N 36 23/01/95 \$297.141	JONES 95-NA-140	
AERGELASTIC, CFD AND DYNAMICS COMPUTATION AND BUFFET AND FLUTTER APPLICATIONS Old Dominion University	OPTIMIZATION FOR Sama		12 24/01/95 \$35,000	SAKELL 95-NA-141	
STATISTICAL MECHANICAL MODELS FOR THE DEFORMATION PACKED GRANULAR MATERIALS Cornell University	ION OF DENSELY Jenkins James		N 36 27/01/95 \$193,104	LEWIS 95-NA-142	
CEMENTED PARTICULATE MATERIALS: FROM GRAIN-TO-GRA TO MACRO-BEHAVIOR Stanford University	-GRAIN CONTACT LAWS Dvorkin Jack		N 36 27/01/95 \$314,704	LEWIS 95-NA-143	

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FIRST PRINCIPLES TREATMENT OF PARTICULATE Microstructure Thiokol Copp	E HECHANICS FROM MATERIAL Davis	Irvin	N 36 27/01/95 \$303,850	LEUIS 95-NA-144	
PHASE EQUILIBRIA AND TRANSPORT IN POROUS HEDIA Yalo University School of Medicine	HEDIA Rosner	Daniel	N 36 27701795 \$375,000	LEWIS 95-NA-145	
MECHANISMS CONTROLLING THE VOLATILIZATION OF VOCS SPARGING Ioma State University	IN OF VOCS BURING AIR	Say	N 36 01/02/95 \$264,843	LEUIS 95-NA-146	
SUPPORT FOR RAM ACCELERATOR RESEARCH Army Research Office	# and	David	N 01/02/95 \$100,000	TISHKOFF 95-NA-147	\$100,000 15/02/95 \$100,000
BAY-STORE RELEASE DURING AIRCRAFT MANEUVER Arnold Engineering Development Center	ER (2535) Tennent	Scott	N 07 02/02/95 \$199,925	A SAKELL 95-NA-148	\$199,925 01/03/95 \$199,925
DURIP95/RESEARCH INSTRUMENTATION FOR INTELLIGENT Material Damage and Structural Integrity in Weapo Ponnsylvania State University	IN FOR INTELLIGENT SENSING OF INTEGRITY IN WEAPON SYSTEMS Ray	4. 8. 5. 7.	N 24 03/02/95 \$100,392	JONES 95-NA-149	
DURIP95/ULTRA HIGH VACUUM AND PRECISION DIAGNOSTIC TEMPERATURE LABORATORY Wayne State University	DIAGNOSTIC HIGH Nebaz	Golan	N 24 03/02/95 \$355,000	JONES 95-NA-150	
DURIP95/INSTRUMENTATION FOR CHARACTERIZATION OF POLYMER COMPOSITES Virginia Polytechnic Inst & State Univ	ITION OF ADVANCED Reifsnider	Kenneth	N 36 03/02/95 \$168,266	JONES 95-NA-151	
DURIP95/AN ADVANCED TEST SYSTEM FOR CHARACTERIZING MATERIALS IN SEVERE SERVICE ENVIRONMENTS Uniw of Dayton	ACTERIZING AEROSPACE Hartman	Gearge	N 12 03/02/95 \$352,084	JONES 95-NA-152	

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MICRO-MECHANISMS OF CORROSION FATIGUE USING ATOMIC FORCE Microscopy at active Microstructural Sites on 2024-T3 al Univ of Pennsylvania	UE USING ATOMIC FORCE L SITES ON 2024-T3 AL ALLOY Laird	Campbell	N 12 06/02/95 \$100,000	A Ward 95-NA-153	\$100,000 01/05/95 \$100,000
COUPLED ELASTIC SURFACE WAVES IN CURVED STRUCTURES Univ of Illinois	RVED STRUCTURES HAFFIS	John	N 36 07/02/95 \$90,000	NU 95-NA-154	
L ANALYSI CRITICAL Onal Inc	S OF SYNERGETIC DEFECT STRUCTURES FOR State of Materials under Load Zasimchuk	Elena	N 24 08/02/95 \$429,469	WU 95-NA-155	
(SBIR-FY95) PRESSURE IMAGING SHEETS APPLICATIONS Gre Incorporated	S FOR TURBONACHINERY Gaffney	Edeard	N 06 08/02/95 \$79,421	MCMICHAEL 95-NA-156	• .
MEASUREMENTS IN TURBONACHINERY USING Eye Research Laboratory Inc	G PRESSURE SENSITIVE PAINT Schneider	Richard	N 06 09/02/95 \$79,985	HCMICHAEL 95-NA-157	
MECMANICAL/THERMAL JET-SURFACE INTERACTIONS IN PROCESSES Acdonnell Douglas Aerospace	RACTIONS IN PAIN STRIPPING Parekh	David	N 27 10/02/95 \$397,037	A A A A A A A A A A A B B	\$183,831 01/05/95 \$397,037
COMPRESSIBLE TURBULENT REACTIVE FLOWS Univ of California, San Diego	W.S. Williams	Forman	N 36 17/02/95 \$334,640	TISHKOFF 95-NA-159	\$107,000 01/06/95 \$334,640
AFRAPT/FUNDING FOR TWO AFRAPT STUDENT TRAINEES 1995-96 Princeton University	NI TRAINEES FOR ACADEMIC YEAR	Chung	N 12 17/02/95 \$18,000	TISHKOFF 95-NA-160	\$18,000 30/09/95 \$18,000
CENTRIFUGE MODELING OF NAPLS Univ of Colorado	Inidarcic	Dobroslav	N 12 24/02/95 \$14,900	LEUIS 95-NA-161	\$14,900 01/04/95 \$14,900

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/NONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
NOMINVASIVE COMPLEX RESISTIVITY MEASUREMENTS OF SSES TO MAP ORGANIC CONTAMINATION & DEGRADATION Colorado School of Mines	IS OF CLAY-ORGANIC PROCE ATION OF CLAY BARRIERS Olhoeft	Gary	N 36 03/03/95 \$348,551	A LEHIS 95-NA-162	\$110,748 01/06/95 \$348,551
AGING OF MATERIALS, PLASTICITY AND ACOUSTIC Univ of Connecticut	C DETECTION METHODS Galligan	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	N 48 03/03/95 \$620,663	NU 95-NA-163	
SEARCH FOR UNIVERSALITY OF FAILURE DYNAMICS Lehigh University	Hong	Daniel	N 36 03/03/95 \$127,080	LENIS 95-NA-164	
FUNDAMENTAL RESEARCH ON THE MECHANICS OF FLUID FLOW Media Purdue Research Foundation	LUID FLOW THROUGH POROUS Fox	Patrick	N 36 03/03/95 \$189,490	LEUIS ' 95-NA-165	
SIC FIBRIL REINFORCED BULK METALLIC GLASS COMPOSITE 34564-MS) Army Research Office	COMPOSITES CARO PROPOSAL Chen	Edward	N 18 06/03/95 \$75,000	A HARD 95-NA-166	\$75,000 01/04/95 \$75,000
SYNERGISTIC CORROSION MONITORING OF AIRFRAME Structures Cornell University	MATERIALS	Wolfgang	N 36 09/03/95 \$354,426	NU 95-NA-167	\$237,794 01/07/95 \$354,426
EVOLUTION AND COALESCENCE OF HICRODEFECTS IN Intermetallics Michigan Technological University	IN HIGH TENPERATURE Chandra	Abhijit	N 36 09/03/95 \$250,268	JONES 95-WA-168	\$83,423 01/07/95 \$250,268
BEHIND PANEL DEBRIS TEMPERATURE PROFILONETRY Univ of Arizona	27 Dereniak	Eustace	N 24 16/03/95 \$200,000	A SAKELL 95-NA-169	\$200,000 01/07/95 \$200,000
SBIR/LIQUID-DERIVED REFRACTORY COMPOUND INTERFACE FOR SIC MONOFILAMENTS MSMW< Inc.	FERFACE COATINGS Reynolds	660108	N 24 16/03/95 \$79,841	WARD 95-NA-170	

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SBIR/PREPARATION AND EVALUATION OF SINGLE-CRYSTAL-BASED MONOFILAMENTS Scripps Institution of Oceanography R	SINGLE-CRYSTAL YTTRIUM TITANATE Reynolds George	N 24 16/03/95 9e \$79,880		WARD 95-NA-171	
SBIR/FABRICATION OF TIC FIBERS VIA POLYMER PYROLYS	POLYMER PYROLYSIS	N 24		MADA	
CHEMAT TECHNOLOGY INC	Ting Su-Jen			95-NA-172	
SBIR/75 MICRON VAG-ALUMINA EUTECTIC FIBER	FIBER	2			
Saphikon Inc	Collins	16/03/95 ph \$80,000		95-NA-173	
SBIR/HELT-DRAWING AND COATING OF OXI	OXIDE FIBERS FOR COMPOSITE	N 24	24	40	
Containerless Research Inc	Weber Richard		000	95-NA-174	
SBIR/COMPOSITE REINFORCING FIBER AND INTERFACIAL	D INTERFACIAL COATING PROCESS	Z			٠
Advanced Ceramics Reseach	Boulton Jona	16/03/95 Jonathan \$80,000		WARD 95-NA-175	
DURIP95/ENVIRONMENTAL HIGH TEMPERATURE TESTING ADVANCED STRUCTURAL MATERIAL	URE TESTING SYSTEM FOR	N 12	12	No.	
Univ of Washington	Taya Hinoru		000	95-NA-176	
DURIP95/DEVELOPMENT OF FAILURE CRITERIA FOR POLYME	ERIA FOR POLYMER BASED	Z	12		
COMPUSITES UNDER MULIT-MAIAL LUADING Univ of Michigan	u Waas Anthony	21/03/95 ony \$247,520	520	JONES 95-NA-177	
INSTRUMENTATION FOR SORS FABRICATED FROM	A NEW CLASS OF HIGH TEMPERATURE (2000 Sapphire Planar Waveguide Gratings	N 98	98	JONES	
Univ of Maryland	Sirkis	s \$154,861	861	95-NA-178	
DURIP95/ma HIGH SPEED NO:YAG BASED I OF RAPID TIME-EVOLVING FLUID AND MAT Princeton University	BASED IMAGING SYSTEM FOR THE CAPTURE AND MATERIALS PARAMETERS**	N 21/03/95 \$361,9440	97	JONES 95-NA-179	

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TITLE (CONT.) INSTITUTION INVESTI	ESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AHT
DURIP95/ENVIRONMENTAL SCANNING ELECTRON MICROSCOPE WITH Electrohydraulic fatigue loading stage Purdue University	ry Ben	N 21/03/95 \$483,743	JONES 95-NA-180	
DURIP95/ULTRA-HIGH VACUUM ELECTRON SCATTERING CHAMBER FO CHARACTERIZATION OF MATERIALS IN SEVERE ENVIRONMENTS. Utah State University	FOR THE	N 96 21/03/95 \$129,497	JONES 95-NA-181	
DURIP95/RESEARCH EQUIPMENT FOR DAMAGE CHARACTERIZATION IN Structural Solids Univ of California, Los Angeles	IN Ajit	N 21/03/95 \$199,070	JONES 95-NA-182	
DURIP95/DEFENSE UNIVERSITY RESEARCH INSTRUMENTATION PROGR ESTABLISHMENT OF FRASTA CAPABILITY Pennsylvania State University	PROGRAM onald Digby	N 96 22/03/95 \$365,043	JONES 95-NA-183	
BURIP95/MULTIPURPOSE HIGH TEMPERATURE ENVIRONMENTAL TESTOR UNIAXIAL & BIAXIAL TESTING UNDER MONOTONIC & CYCLIC Washington University	FAL TEST FACILITY CYCLIC LOADING Sastry Shankar	N 22/03/95 \$253,555	JONES 95-NA-184	· .
DURIP95/DURABILITY AND LIFE ASSESSMENT FOR AFFORDABLE Manufacturing of Polymer-Matrix Composites Univ of Delamare Gillespie	ie Jr John	N 96 22/03/95 \$358,900	JONES 95-NA-185	
DURIP95/INSTRUMENTATION FOR HIGH TEMPERATURE TESTING OF MATERIALS Purdue University	F ADVANCED A Horacio	N 96 22/03/95 \$64,560	JONES 95-NA-186	
NANO-STRUCTURES VIA DIFFUSION LIMITED CRYSTALLIZATION FROM SOLUTION PRECURSORS: SYNTHESIS AND PROPERTIES Uniw of California» Santa Barbara	ROM	N 36 28/03/95 \$500,000	PECHENIK 95-NA-187	\$200,000 01/05/95 \$500,000
AFOSR/ML AGING AIRCRAFT CONFERENCE Wright Lab	Tobey	N 06 29/03/95 \$15,000	A JONES 95-NA-188	\$15,000 01/04/95 \$15,000

REPORT DATE 04/03/95

PROPOSAL STATUS REPORT (1 JAN 95 - 31 MAR 95) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF AEROSPACE SCIENCES

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TITLE (CONT.) Institution	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT	
TO SUPPORT ALC°S AGING AIRCRAFT HORKING GROUP MEMBERS AFOSR AGING AIRCRAFT CONFERENCE/AFMC AGING A/C WORKING Air Materiol Command	.NG GROUP MEMBERS ATTENDING AGING A/C WORKING GRP MTG. Moore	Robert	N 03 31/03/95 \$15,000	MU 95-NA-189 .	\$15,000 01/04/95 \$15,000	6.2
QUASISTATIC MECHANICS AND MATERIAL STABILITY OF PARTICULATE MEDIA Univ of California, San Diego	FABILITY OF PARTICULATE MEDIA Goddard	a o f	N 24 31/03/95 \$236,896	LEWIS 95-NA-190		
COLLABORATIVE RESEARCH FOR ADVANCED MODELING AND NUMERI SIMULATION OF SURFACTANT ENHANCED AQUIFER REMEDIATION Duke University	IODELING AND NUMERICAL Jifer Remediation Trangenstein	John	N 31/03/95 \$1,416,233	LEUIS 95-NA-191		
"PROBABILISTIC FRACTURE MECHANICS FOR AEROSTRUCTURES Vanderbilt University Cru	AEROSTRUCTURES Cruse	Thomas	N 36 31/03/95 \$231,860	MU 95-NA-192	· When the state of the state o	è

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START DATE INITIATE \$180,000 \$10,000 \$4,000,000 \$70,000 01/04/95 \$10,000 31/03/95 \$4.000,000 01/03/95 \$4,000,000 \$4,000,000 01/03/95 \$80,000 01/04/95 \$80,000 TOT AMT PROGRAM MANAGER PROPOSAL 6 95-NE-129 POMRENKE 95-NE-130 95-NE-132 95-NE-131 95-NE-133 95-NE-135 95-NE-134 95-NE-136 95-NE-137 STATUS WEINSTOCK POMRENKE POMRENKE POMRENKE BARKER BARKER KELLEY CRAIG TYPE/MONTHS N 06 09/01/95 RECEIVED \$2,000 N 36 10/01/95 N 36 10/01/95 R 12 11/01/95 \$180,000 04/01/95 04/01/95 \$4.000,000 \$449,970 04/01/95 \$5,000 \$4,000,000 \$10,000 07 09/01/95 07 09/01/95 \$2,099,252 \$80.000 AMOUNT z z Ravinder Marlene Richard Patrick Patrick Gerald John John John BASIC RESEARCH ON NOVEL SHEET ELECTRON BEAM AND HIGH POWER SLOW-WAVE AMPLIFIER CONFIGURATIONS
Univ of Wisconsin SYMPOSIUM B "DEFECT AND IMPURITY ENGINEERRED SEMICONDUCTORS AND HIGH-BANDWIDTH OPTICAL PACKET SWITCHING TECHNOLOGY FOR OPTICAL FIBER COMMUNICATION INVESTIGATOR Rosenberg SQUID SENSORS: FUNDAMENTALS, FABRICATION AND APPLICATIONS Ballance Ballance Metcalf Kachru Smith Smith Smith SYMPOSIUM AAA mGALIUM NITRIDE AND RELATED MATERIALS RESEARCH INTO HIGH TEMPERATURE ELECTRONIC MATERIALS RESEARCH INTO HIGH TEMPERATURE ELECTRONIC MATERIALS COULOMB CRYSTALLIZATION IN DUSTY PLASMAS STORAGE AND TRANSPORT OF ANTIPROTONS Diego Pennsylvania State University National Science Foundation Materials Research Society Materials Research Society Univ of California, San SRI International TITLE (CONT.) INSTITUTION Wright Lab Wright Lab DEVICES

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PREPARATION OF HIGH-PERFORMANCE FIELD EMISSION DEPOSITION OF LOW WORK FUNCTION FILMS Linfield Research Institute	CATHODES BY Davis	Paul	N 36 12/01/95 \$299,558	BARKER 95-NE-138	\$99,875 01/04/95 \$299,558
SELF-FIELD-DOMINATED PLASMA Compton Research Laboratory Inc	Nardi	Vittorio	N 36 20/01/95 \$639,870	BARKER 95-NE-139	\$239,870 01/05/95 \$639,870
NON-STOICHIOMETRIC MATERIALS: LATERAL CONTROL (CESS MODEL FOR IMPORVED YIELD AND PERFORMANCE Georgia Institute of Tech	OF DEFECTS AND A PRO Brown	April	N 36 23/01/95 \$450,000	WITT 95-NE-140	
MULTIDIMENSIONAL MULTIMAVELENGTH CIRCUIT/PACKET S Mavelength Conversion via four mave mixing (FMM) Georgia Tech Research Corporation	T SWITCHING USING M) IN SEMICONDUCTOR Blumenthal	Daniel	N 36 23/01/95 \$374,758	CRAIG 95-NE-141	٠.
SBIR-95 ULTRAFAST ELECTRONIC DIAGNOSTICS AND TESTING Focused Research Inc	ESTING Marsland	Robert	N 06 25/01/95 \$80,000	SCHLOSSBER 95-ME-142	
SBIR-95 A NOVEL TIME SCALE TRANSFORMATION MEASUREMENT SYSTEM Physical Optics Corporation	UREMENT SYSTEM Katsman	Vladimir	N 06 25/01/95 \$79,981	SCHLOSSBER 95-NE-143	
SBIR-95 GIGAHERTZ RATE OPTICAL SAMPLING BRIDGE Visidyne inc	Wantjes	Geert	N 06 25/01/95 \$79,598	SCHLOSSBER 95-NE-144	
SBIR-95 LATTICE-MATCHED SUBSTRATE FOR CUBIA GAN Spire Corporation	Vernon	Stanley	N 06 25/01/95 \$79,786	POKRENKE 95-NE-145	
SBIR-95 NITRIDE-BASED MATERIALS FOR HIGH TEMPERATU USING SILICON CARBIDE LAYER Astralum	RATURE ELECTRONICS Walker	Christopher	N 06 25/01/95 \$80,000	POMRENKE 95-NE-146	

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PROPOSAL STATUS REPORT (1 JAN 95 - 31 MAR 95) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE FOT AMT
SBIR-95 NITRIDE-BASED MATERIALS FOR HIGH TEMPERATUR USING VAN DER WAALS SUBSTRATES Astralux	ERATURE ELECTRONICS Leksono	Moel janto	N 06 25/01/95 \$80,000	POHRENKE 95-NE-147	
SBIR-95 GROWTH OF GAN BY REMOTE MICROWAVE PLASMA-ENHANCED Metalorganic Chemical vapor deposition Astralux	SMA-ENHANCED Løksong	Moeljanto	N 06 25/01/95 \$80,000	POHRENKE 95-NE-148	
SBIR-95 ALTERNATE PRECURSORS FOR LOW TEMPERATURE INDIUM GAN Advanced Technology Materials Inc.	URE GROWTH OF Reduing	Joan	N 06 25/01/95 \$80,000	POHRENKE 95-NE-149	
GERMANIUM CARBIDE SUBSTRATES FOR LATTICE MATCHED G(A)N GROWTH Advanced Technology Materials Inc.	HED G(A)N GROWTH Powell	Adrian	N 06 25/01/95 \$80,000	POHRENKE 95-NE-150	
ULTRATHIN S(I)C-OM-INSULATOR (S(I)COI) FOR ALE DEFECT GROUP III NITRIDES Spire Corporation	E GROWTH OF LOW-	Fereydoon	N 06 25/01/95 \$79,964	POHRENKE 95-NE-151	
NITRIDE—BASED MATERIALS FOR HIGH TEMPERATURE E Sacrificial substrate Astralux	ELECTRONICS USING	Chang-hua	N 06 25/01/95 \$80,000	POHRENKE 95-NE-152	
NOVEL LATTICE AND THERMAL MATCHED BUFFER LAYERS Growth of G(A)n on Silicon substrates Brimrose Corp. of America	RS FOR EPITAXIAL Jagannathan	•	N. 06 25/01/95 \$80,000	POMRENKE 95-NE-153	
GROWTH OF SEMICONDUCTOR NITRIDE ALLOY FILMS Linares Management Assoc, Inc. (LMAINC)	Linares	Robert	N 06 25/01/95 \$68,756	POMRENKE 95-Ne-154	
LOM COST SUBSTRATES FOR GALLIUM NITRIDE FILMS Linares Management Assoc, Inc. (LMAINC)	Doering	Patrick	N 06 25/01/95 869,784	POMRENKE 95-NE-155	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AHOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
MOCVD GROWTH AND HIGH-TEMPERATURE CHARACTERISTICS G(A)N-BASED DEVICES Emcore Corporation	OF GCAJICNJN/ hern	Chyi	N 06 25/01/95 \$79,913	POMRENKE 95-NE-156	
SBIR-95 COMPLIANCE SUBSTRATES FOR GALLIUM NITRIDE Advanced Technology Materials Inc.	GROWTH Dwell	Adrian	N 06 25/01/95 \$80,000	POMRENKE 95-NE-157	,
SBIR-95 ATOMIC NITROGEN SOURCE FOR GAN Physical Sciences Inc	GROWTH Gelb	Alan	N 06 25/01/95 \$80,000	POHRENKE 95-NE-158	٠
SBIR-95 CONTROLLED GROWTH OF HETERO-EPITAXIAL, THIN FILMS Creare Inc. Research & Development Inc	SINGLE-CRYSTAL ALN Onishi	Shinzo	N 06 25/01/95 \$79,783	POMRENKE 95-NE-159	` ,
SBIR-95 OPTIMIZATION OF MBE GROWTH OF III-V NITRID ELECTRONIC APPLICATIONS USING MULTIPLE RF NITROGEN SVT Associate Inc	ES FOR HIGH TEMP PLASMA SOURCES nhove	James	N 06 25/01/95 \$79,282	POMRENKE 95-NE-160	•
SBIR-95 NOVEL BUFFER LAVERS FOR HIGH QUALITY GALLIUM S.I. Diamond Technologies, Inc		Harlanne	N 06 25/01/95 \$80,000	POMRENKE 95-NE-161	
SBIR-95 GAM BASED HETEROSTRUCTURES Quantum Epitaxial Designs, Inc.	Massie	Scatt	N 06 25/01/95 \$78,685	POHRENKE 95-NE-162	
SBIR-95 HIGH TEMPERATURE HETEROJUNCTION TRANSISTOR And wide bandwidth NZ Applied Technològies	N TRANSISTORS WITH HIGH GAIN Norfis	Peter	N 06 25/01/95 \$79,999	POMRENKE 95-NE-163	
SBIR-95 HOMOEPITAXIAL GROWTH AND CHARACTERIZATION Nitride (gan) Single Crystal Films TRS Ceramics Inc	CTERIZATION OF GALLTUM Zhu	#ayne	N 06 25/01/95 \$79,913	POKKENKE 95-NE-164	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMI
SBIR-95 ADVANCEMENT OF GAN AND GA1-X High temperature electronics Formatonics Corporation	GA1-X ALXN MATERIALS FOR USE IN Chu	Auren	N 06 26/01/95 \$80,000	PONRENKE 95-NE-165	
SBIR-95 A NEW TECHNIQUE FOR GROWTH OF HIGH QUALITY SEMICONDUCTORS Vactromics Lab Equipment Inc	WIH OF HIGH QUALITY III-V NITRIDE Bu	A C	N 06 26/01/95 \$79,986	POMRENKE 95-NE-166	
SBIR-95 DEVELOPMENT OF GALLIUM MITRIDE Metalorganic Chemical vapor deposition Epitronics Corporation	MITRIDE MATERIALS GROWTH TECH BY OSITION FOR HIGH TEMP ELEC APPLICAT Givens	Michael	N 06 26/01/95 \$80,000	POHREWKE 95-NE-167	
SBIR-95 GROWTH OF GAN SUBSTRATES USING LOW Epitaxy Epitronics Corporation	S USING LOW PRESSURE VAPOR PHASE	Robert	N 06 26/01/95 \$80,000	PONRENKE 95-NE-168	
SBIR-95 MBE THIN FILM FORMATION USING A N. Flux atomic and molecular nitrogen source Ionwerks	USING A NOVEL LOW ENERGY HIGH Gen source Schultz	J. Albert	N 06 26/01/95 \$79,505	POHRENKE 95-NE-169	· .
SBIR-95 CRYO RADICAL CHEMISTRY AND CLUSTER BEA Alternative approaches to III/V Nitride Growth Ionwerks	AND CLUSTER BEAN DEPOSITION AS NITRIDE GROWTH Schultz	J. Albert	N 06 26/01/95 \$79,749	POMRENKE · 95-NE-170	
SBIR-95 BOOTSTRAP DEVELOPMENT OF LOW GOST, SUBSTRATES	F LOW COST, HIGH QUALITY III-N . Helava	Heikki	N 06 26/01/95 \$77,140	POHRENKE 95-NE-171	
SBIR-95 PLASMA DEPOSITION AND IC FILMS Consultec Scientific Inc	AND ION IMPLANTATION OF THIN NITRIDE , Hunter	Scott	N 06 26/01/95 \$79,999	POHRENKE 95-NE-172	
SBIR-95 SELF-SHIELDING SUPERCONDUCTING Intermagnetics General Corp	DUCTING SOLENDIDS Parizh	Michael	N 06 26/01/95 \$79,422	KELLEY 95-NE-173	

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TITLE CCONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CONFERENCE ON NONLINEAR DYNAMICS IN OPTICAL SYSTE	ETS		8	ect (\$9,570
Univ of Rochester	Agramal	Govind	\$9,510	95-NE-174	\$9,570
LOW TEMPERATURE SUPERCONDUCTOR DIGITAL ELECTRONIC	S		N 24	V V V V V V V V V V V V V V V V V V V	\$1,394,000
State University of New York	Likharev	Konstantin	\$1,394,000	95-NE-175	\$2,844,000
OPTOELECTRONIC DEVICE AND SYSTEM DEVELOPMENT FOR	INAGING THROUGH		N 36 30/01/95		\$102,113 01/04/95
lifornia, San Diego	Fainman	Shaya	\$290,903	95-NE-176	\$318,265
INDIUM MONG-ION OSCILLATOR (IT)			36	3 U	
Unity of Washington	Nagourney	Harren	\$385,371	95-NE-177	
ALL FIBER-BASED OPTICAL TRANSMITTERS AND SWITCHIN	SHITCHING TECHNOLOGIES		N 24		
Univ of Connecticut	Cheo	Peter	\$250°419	95-NE-178	
HIGH POWER, MILLIMETER WAVE GVRO-AMPLIFIERS			N 36	32 0	
Massachusetts Institute of Technology K	Kreischer	Kenneth	\$618,180	95-WE-179	
EIGHTH INTERNATIONAL CONFERENCE ON SCANNING TUNNE SPECTROSCOPY (STM*95)	NELING MICROSCOPY		N 02 01/02/95	DEINSTOCK	
t v	Colton	Richard	\$5,000	95-NE-180	
400-1000 GHZ, SUBMICRON SCHOTTKY-COLLECTOR HETERO TRANSISTOR ELECTRONICS	ROJUNCTION BIPOLAR		N 36 06/02/95	SCHLOSSBER	
a Barbara	Roduell	Hark	\$467,682	95-NE-181	
NONPERTURBATIVE NONLINEAR OPTICS IN A LIGHT PIPE FOR HIGH Y LASER PULSES	FOR HIGH INTENSIT		N 36 08/02/95	SCHLOSSBER	
Haryland	Milchberg	Howard	\$617,000	95-WE-182	

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HOLOGRAPHIC 3D DISKS			R 36		
California Institute of Technology	Psaltis	Demetri	08/02/95 \$404,377	CRAIG 95-NE-183	
NOVEL PROCESSING TECHNIQUES FOR ELECTRONIC AND OPTO-ELECTRONIC APPLICATIONS: QUANTUM-WELL DEVICES AND INTEGRATED OPTIC CIRCUI Columbia University	OPTO-ELECTRONIC NTED OPTIC CIRCUITS Osgood	Richard	R 36 08/02/95 \$1,650,000	SCHLOSSBER 95-NE-184	\$100,000 15/06/95 \$1,650,000
SELP-SHIELDING SUPERCONDUCTING SOLENDIDS			80 90		
Hagnet Analysis for Government Industry	Leggel	Carl	\$39,000 \$39,000	KELLEY 95-NE-185	
SELF-SHIELDING SUPERCONDUCTING SOLENDIDS			90		
Digital Physics Associates	Nachaskin	Jack	09/02/95 \$80,000	KELLEY 95-NE-186	
DESIGN OF SELF-SHIELDING SUPERCONDUCTING SOLENDIDS	1010s		90 N		
CMS Consulting	Sinha	Amarendra	\$54,350	KELLEY 95-NE-187	
A COMPUTER CODE FOR OPTIMIZING THE SELF-SHIELDING SUPERCONDUCTING SOLENOIDS HJB Consulting	IING EFFECT IN Goodzeit	Carl	00 N 06 09/02/95 879,989	KELLEY 95-NE-188	
SELF-SHIELDING OPTIMIZATION OF SUPERCONDUCTING	SOLENDIDS		90 R		
JC Monzon	Monzon	Cesal	\$60,000	KELLEY 95-NE-189	
SELF-SHIELDING SUPERCONDUCTING SOLENOID SYSTEM			90		
Information Technology	Ding	Shougian	69702/95 \$72,707	KELLEY 95-NE-190	
SELF-SHIELDING SUPERCONDUCTING SOLENOIDS			90		
Nova Hanagement Inc	Ingham	David	\$69,552 \$69,552	KELLEY 95-NE-191	

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TITLE CCONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SUPERCONDUCTING SELF-SHIELDING SOLENOIDS			90		
Nalorac Cryogenics Corporation	Carolan	James	\$78,759	RELLET 95-NE-192	
ATOMIC FORCE VOLTAGE PROBE FOR TESTING ULTRAFAST	AST ELECTRONICS		30		
Spectral Solutions	van der Meide	Daniel	\$79,450	SCHL05SBER 95-NE-193	
AN ULTRA-WIDEBAND (>300 GHZ) HIGH-SAMPLING (100 GHZ) APPARATUS Millimeter-waye signal measurements	00 GHZ) APPARATUS FOR		N 36 09/02/95	SCHLOSSBER	
General Photonic Corporation	Sackett	Dawid	\$80,000	95-NE-194	
ULTRAFAST ELECTRONIC DIAGNOSTICS WITH AN RF S	SIGNAL TRAIN GENERATOR		90		
Liceimer	3	Ming-Chiang	\$80,000	3CHEU33BER 95-NE-195	
GROWTH OF EPITAXIAL ALN THIN FILMS ON LARGE AREA	REA SILICON		N 066		
ESDI. Inc	Ganapathi		\$19,613	FORKENKE 95-NE-196	
DOPED CBN FILM DEPOSITION BY HYBRID LASER-ION TECHNIQUE	TECHNIQUE		90 N		
ESDI. Inc	Ganapathi	•	\$4.607.60	POMKENKE 95-WE-197	
INNOVATIVE ATOMIC-NITROGEN SOURCE FOR NBE GROWI Quality Nitride Materials for High-Temperature Surface/Interface inc	NBE GROWTH OF DEVICE- IPERATURE ELECTRONICS Bryson, III	Charles	00 0 N 09/02/95 879,955	POHRENKE 95-NE-198	
AN INNOVATIVE APPROACH TO III-V NITRIDE MATERIAL IN HIGH TEMPERATURE ELECTRONICS Vactronics Lab Equipment Inc	IAL GROWTH FOR USE Fricano	6 1en n	N 06 09/02/95 \$79,400	POMRENKE 95-NE-199	
GROUTH OF LARGE SINGLE CRYSTALS OF GAN, ALM &	CBN	·	90 N		
Clayss	Clay	John	\$80,000	95-NE-200	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AHT
HIGH PERFORMANCE ATOMIC NITROGEN SOURCE			90 N		
MBE Technologies, Ovation Industries Inc.	Braddock	David	\$19,884	POMRENKE 95-NE-201	
IMPROVED SOURCES FOR MOLECULAR BEAN EPITAXY OF	OF GROWTH OF NITROGEN		90		
		Joanna Mirecki	09/02/95 \$98,599	POMRENKE 95-NE-202	
GAN FOR HIGH TEMPERATURE ELECTRONICS			90 *		
Cascade Display & Electronics	DelaRosa	Mark	\$79,995	POMRENKE 95-NE-203	
METAL CONTACTS FOR HIGH-TEMPERATURE GAN ELECTRONIC	TRONIC APPLICATIONS		90 N		
Spectra Diode Laboratories, Inc	Zhao	Hansin	\$19,930	POMRENKE 95-NE-204	
NOVEL METHODS FOR PROCESSING OF ALM, GAN, ALXGA(1-X)N ALLOYS AND	ACI-X)N ALLOYS AND		90 X		
Novel Pharmaceutical Inc	Bhandari	Rasit	\$16,67\$	PORKENKE 95-NE-205	
STUDIES OF GERMANIUM - SILICON STRUCTURES FO	FOR INFRARED DETECTORS		36		
Fisk University	Burger	Arnold	14/02/95 \$548,869	PORKENKE 95-NE-206	
INFRARED DETECTORS INTEGRATED			N 12	*	\$25,000
Arizona State University	Hathine	David	\$50,000	CRA16 95-NE-207	\$25,000
OPTICAL AND MAGNETIC RESONANCE CHARACTERIZATION IN NONLINEAR CRYSTALS	ION OF POINT DEFECTS		N 12	A A A A A A A A A A A A A A A A A A A	\$20,000
West Virginia University Research Corp	Halliburton	Larry	\$20,000	95-NE-208	\$20,000
FIFTH SYMPOSIUM ON FREQUENCY STANDARDS AND METROLOGY	ETROLOGY		90		\$23,000
National Inst. of Standards & Technology	Bergquist	Some?	\$23,000	85-NE-209	\$23,000

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TITLE (CONT.) INSTITUTION	RE	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMI
SILICOM AND GERMANIUM THIN FILM CHEMICAL VAPOR DEPOSITION, HODELING AND CONTROL Univ of Texas at Austin	22 22 John \$49	N 60 22/02/95 \$4,000,000	POMRENKE 95-NE-210	\$800,000 01/06/95 \$4,000,000
PROCESS MODELING AND IM-SITU SENSOR FEEDBACK BASED ADAPTIVE CHTRL OF MBE AND ION-ASSIST. REACTIVE ETCHING OF ADV. SEMICOND. STRUCT. Univ of Southern Cal School of Eng	N 22 Anupam \$49	N 60 22702/95 \$4,500,000	POMRENKE 95-NE-211	\$900,000 01/07/95 \$4,500,000
EFFICIENT, HIGH-SPEED, AND LOW-POWER-DISSIPATION CRYDLASERS Univ of New Mexico	N 22 Julian	12 23/02/95 \$50,000	CRAIG 95-NE-212	
SEVENTH INTERNATIONAL CONFERENCE ON INDIUM PHOSPHIDE AND RELATED MATERIALS Inst. of Electrical & Electronics Engrg	Edward 6	N 12 07/03/95 \$20,000	SCHLOSSBER 95-NE-213	\$18,210 01/04/95 \$18,210
INTERSUBBAND QUANTUM-BOX SEMICONDUCTOR LASERS Univ of Wisconsin	N 000	36 07/03/95 \$469,790	SCHLOSSBER 95-NE-214	
HYSTERESIS AND ACOUSTIC EMISSION AS NON-DESTRUCTIVE MEASURES OF THE FATIGUE PROCESS IN METALS Illinois Institute of Technology	z i *	N 14 13/03/95 \$159,168	A WEINSTOCK 95-NE-215	\$159°168 01/04/95 \$159°168
SYNTHESIS AND CHARACTERIZATION OF INTLP AND INTLAS Univ of Florida	Camay &	N 36 14/03/95 \$372,650	POHRENKE 95-NE-216	
A MULTISPECTRAL SUPERCONDUCTING QUANTUM DETECTOR Westinghouse Electric Corporation	N 13 Nathan	36 15/03/95 \$600,000	WEINSTOCK 95-NE-217	
GAMMA-RAY FLASHES AT EXAMATT POWERS FOR DEFENSE STRATEGIES University of Texas at Dallas	Z ∰ ∰	N 36 16/03/95 \$855,000	KELLEY 95-NE-218	

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MICROWAVE SIGNAL PROCESSING DEVICE USING MULTILAYERED NON- COLLINEAR YIG STRUCTURES Jackson State University	USING MULTILAYERED NON-	Kunquan	N 36 17/03/95 \$99,960	DEINSTOCK 95-NE-219	
(AASERT-95) NOISE CHARACTERIZATION OF DEVICES FOR OPTICAL Computing Texas Tech University	OF DEVICES FOR OPTICAL Walkup	John	N 22/03/95 \$117,658	CRAIG 95-NE-220	\$117,658 15/06/95 \$117,658
MBE GROWTH AND CHARACTERIZATION OF LOW TEMPERATURE GAAS STRUCTURES Univ of Texas	LOW TEMPERATURE GAAS STRUCTURES Alavi	Kambiz	N 24 22/03/95 \$272,072	WITT 95-NE-221	
CONFERENCE ON FUTURD DIRECTIONS FOR LASERS IN MEDICINE AND SURGERY IV Engineering Foundation	R LASERS IN HEDICINE AND SURGERY Freiman	Charles	N 06 24/03/95 \$10,000	SCHLOSSBER 95-NE-222	
ALL OPTICAL POLYMERIC LIQUID CRYSTAL SWITCH FOR SCANNING NEASUREMENT APPLICATIONS University of Tulsa	AL SUITCH FOR SCANNING BEAM Lopresti	Peter	N 24 24/03/95 \$85,785	SCHLOSSBER 95-NE-223	
ORGANIZATION OF THE 1995 OPTICAL COMPUTING TOPICAL Optical Society of America	OMPUTING TOPICAL MEETING Hennage	David	N 06 28/03/95 \$5,000	CRAIG 95-NE-224	\$5,000 °°° \$5,000 °°° \$5,000

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START DATE \$25,000 01/06/95 \$127,198 INITIATE 01/01/95 \$250,000 01/03/95 \$250,000 \$37,900 \$31,147 \$31,147 25/03/95 \$38,000 \$25,000 \$3,627,198 TOT ANT PROGRAM MANAGER 95-NI-010 95-NI-015 PROPOSAL # 95-NI-009 95-NI-011 95-NI-012 95-NI-013 95-NI-014 STATUS SHELDON SHELDON SHELDON ZARBO WHITE HHITE • HART TYPE/HONTHS N 12 09/01/95 N 12 19/01/95 N 12 15/03/95 N 36 27/03/95 N 36 27/03/95 \$1,892,217 RECEIVED \$250,000 90 23/01/95 \$38,000 \$25,000 15/03/95 \$3,627,198 \$31,147 \$2,908,075 AMOUNT RICHARD Robert George Same Heyer Don US-JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING PROGRAM US-JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING PROGRAM ENVESTIGATOR NATIONAL RESEARCH COUNCIL - RESIDENT RESEARCH ASSOCIATESHIP Bridgeman Birnboim POTEMBER Manka LIKER Polk Lott PHYSICS OF HIGH-POWER VISIBLE SEMICONDUCTOR LASERS HONLINEAR OPTICS OF METAL COATED QUANTUM DOTS GOVERNMENT-UNIVERSITY-INDUSTRY RESEARCH FACULTY RESEARCH PROPOSALS FY95 (AFIT) Air Force Institute of Technology Air Force Institute of Technology Rensselaer Polytechnic Institute John Mopkins University Center National Research Council Office of Naval Research Univ of Michigan PROGRAM (RRA) TITLE (CONT.) INSTITUTION

95-NI-016

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US-JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING PROGRAM

Science Center

University City

US-JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING PROGRAM

Univ of Texas at Austin

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TITLE (CONT.) INVESTIGATOR	TA B	TYPE/HONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AHT
US-JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING PROGRAM	2	36	*	
North Carolina State University SYLVESTER JR	JOHN \$2.	27/03/95 \$2,585,430	HHITE 95-NI-018	
US-JAPAN INDUSTRY AND TECHNOLOGY NANAGEMENT TRAINING PROGRAM	z	36	æ	
Univ of Hawaii DANIEL	SHIRLEY \$2s	27/03/95 \$2,686,579	WHITE 95-NI-019	
US-JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING PROGRAM	2	36	< 1	
Unity of Washington	AICHIO \$15	28/03/95 \$1,509,426	MHITE / 95-NI-020	
US-JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING PROGRAM	2	36		
Univ of Misconsin	THOMAS \$2.0	\$2,882,480	95-NI-021	
US-JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING PROGRAM	2	36	•	
Massachusetts Institute of Technology SAMUELS	RICHARD \$20	28/03/95 \$2,770,834	UHITE 95-NI-022	
US-JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING PROGRAN	zì	36	«	
Georgia Tech Research Corporation ENDICOTT	3.7 NHOF	\$3,071,641	MH11E 95-NI-023	
US-JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING PROGRAM Univ of Haryland	N 28 28 32 32 32	N 36 28/03/95 \$7,218-215	WHITE 95-NI-024	
MS-JAPAN TUDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING BROGRAM	3	ž		
The RAND Corporation	CHARLES \$3,1	28/03/95 \$3,186,828	WHITE 95-NI-025	
NONLINEAR AERODYNAMIC MODELING FOR AIRCRAFT CONFIGURATIONS	z	12	A	\$4,480
Ohio University	> Leg	\$55,017	95-NI-026	\$4.480

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TITLE CCONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED ANOUNT	STATUS PROGRAH MANAGER PROPOSAL #	INITIATE START DATE TOT AMI
A NEW APPROACH TO THE ANALYSIS OF BIOMEDICAL DATA	BIOMEDICAL DATA		N 03	•	\$37,112
Univ of Maine	Gupta	Ramesh	31/03/95 \$37,112	SHELDON 95-NI-027	\$37,112
AMALYSIS OF THE CHANGES IN HUMAN VISUAL CONTRAST SENSIT	ISUAL CONTRAST SENSITIVITY		N 12	*	
DURING GI INDUCED GREYOUT Uniw of Dayton	Rogers	Dana	31/03/95 \$112 ₀ 343	SHELDON 95-NI-028	
A GENETIC APPROACH TO MAMMALIAN CIRCADIAN RHYTHMS (CO-PI)	RCADIAN RHYTHMS (CO-PI)				
Univ of Pennsylvania	Pickard	Gary	\$128,247	95-NI-029	
"A STUDY OF PHOTOREFRACTIVE CRYSTAL PROPERTIES FOR NONLINEAR OPTICAL APPLICATIONS Alfred University	PROPERTIES FOR NONLINEAR Leigh	Wallace	N 12 31/03/95 \$107,352	SHELDON 95-NI-030	
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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DAT
MOLECULAR PROPERTIES OF POLYCADP-RIBOSE) POLYHERASE PROTEASES. Ntification of an endopeptidase and an inducible aminopeptidas San Francisco State University	IBOSE) POLYHERASE PROTEASES. IDE 3 AN INDUCIBLE AMINOPEPTIDASE Kun	Ernest	R 36 04/01/95 \$677,000	KOZUMBO 95-NL-108	\$220,000 01/05/95 \$677,000
CONDUCTION MECHANISMS IN BENZIMIDA IL) AND SEMI-LADDER (BBB) POLYMERS IUniv of Missouri	BENZIMIDAZOBENZOPHENANTHROLINE LADDER (BB Polymers and their Oligomers Sandfeczki	a o L	N 04/01/95 \$156,470	L'EE 95-NL-109	
SUPPRESSION OF RECOMBINATION IN SOLID HYDROGEN Univ of Hasaii	.IO HYDROGEN HOSTS Gaines	20 20 20 20 20 20 20 20 20 20 20 20 20 2	N 36 06/01/95 \$487,201	BERMAN 95-NL-110	
EXTENSION OF SAM1 TO THE FIRST ROW Univ of Missouri	ROW TRANSITION METALS Holder	Andres	N 06/01/95 \$399,729	BERNAN 95-NL-111	
HETEROGENEOUS CHEMISTRY ASSOCIATED WITH ALUMINUM Pennsylvania State University	WITH ALUMINUM OXIDE PARTICLES Castleman, Jr.	A.	N 36 06/01/95 \$410,774	BERMAN 95-NL-112	
ALUMINUM OXIDE SURFACE CHEMISTRY RELEVANT TO THE Ne Cycle Agrodyng Rosgarch Inc	ELEVANT TO THE STRATOSPHERIC 020 Freedman	Andrew	N 06/01/95 \$599,066	BERMAN 95-NL-113	
PARAFOVEAL VERSUS FOVEAL WORD PROCESSING AND IMPLICIT VERSUS CIT MEMORY Southern Illinois University	ESSING AND IMPLICIT VERSUS EXPLI Ferguson	£ < a	N 24 12/01/95 \$92,688	TANGNEY 95-NL-114	
CONTRIBUTIONS OF DISTINCT NEURAL PATHWAYS TO TAR IDE FIELD VISUAL SCENES Oxford University	THUAYS TO TARGET DETECTION IN W	Halcom	N 12 12/01/95 \$25,000	COLLINS 95-NL-115	\$50,000 01/02/95 \$50,000
APS CONFERENCE ON BIOLOGICAL CLOCKS American Physiological Society	Frank	Hartin	N 06 23/01/95 \$5,000	HADDAD 95-NL-116	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	T 8	TYPE/MONTHS Received Amount	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMI
PERCEIVED VARIABILITY IN DECISION-HAKING	MAKING	2 (36		
Univ of Minnesota	Curley Shi	Shawn st	\$290,587	95-NL-117	
SENSORV MATCH AND CONTEXT EFFECTS IN IMPLICIT AND	IN IMPLICIT AND EXPLICIT MEMORY	2.6	36 N 36		
Ness York University	Snodgrass		\$273,760	95-NL-118	
MULTIFUNCTIONAL POLYMER GELS BY DESIGN	SIGN	2 *	N 36	u u	
Auburn University	Jang Bor		\$240,720	95-NL-119	
NOMLINEAR OPTICAL SUSCEPTIBILITIES	OF CONJUGATED POLYMERS	oc e	36		
Univ of Rochester	Mukasel	Shaul \$	\$565,000 \$565,000	95-NL-120	
SINGLE-PARTICLE STUDIES OF HETEROGENEOUS ATMOSPHERIC CHEMISTRY ALUMINUM OXIDE PARTICLES IN A QUADUPOLE TRAP	EROGENEOUS ATMOSPHERIC CHEMISTRY ON QUADUPOLE TRAP	2 0	N 36 25/01/95	25 45 60 60 60 60 60 60 60 60 60 60 60 60 60	
Sciences Inc	Rawlins No.	Terry	\$280,986	95-NL-121	
THERMOPLASTIC NANOCOMPOSITES DESIGN. SYNTHESIS	N. SYNTHESIS & PROPERTIES	z	36 N	u u	
Cornell University	Giannelis	Emmanuel *	\$567°132	95-81-122	
STUDIES OF THE REACTIONS, AND KINETICS OF ATMOSPHERIC		z	90		
MINA: THE HETEKOGENEUDS STRATUSPHEKIC CHEMISIKY PUTENTAL Univ of California, Irvine	KIC CHEMISIKI POIENIJAL UF John Hemminger		\$452,525 \$452,525	BEKRAN 95-NL-123	
THE MICROPHYSICS AND HETEROGENEOUS CATALYTIC CHEMI Mospheric Alumina Aerosols	CATALYTIC CHEMISTRY OF MODEL AT	Z	N 36 25/01/95	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	\$150,000
Univ of North Carolina	ller	Roger	\$485,900	95-NL-124	\$392,000
THE EXPLOSIVE COMBUSTION OF AEROSO	AEROSOL FUELS	z	36		
Univ of North Carolina	Miller	Roger	\$227,025	BERMAN 95-NL-125	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal &	INITIATE START DATE TOT ANT
LABORATORY STUDIES OF THE STRATOSPHERIC Massachusetts Institute of Technology	: EFFECTS OF ROCKET EXHAUST Molina	Mario	N 36 25/01/95 \$426.100	BERMAN 95-NL-126	
DIFFICIAL F DHAKE-CETTING CICUM C OF THE	14.71.70.10.10				
Barnard College of Columbia University	: BIOLUGICAL LLUCK Silver	Rae	30/01/95 \$325,140	HADDAD 95-NL-127	
CLUSTER IONS Univ of California, Santa Barbara	25 G	Michael	N 36 08/02/95 \$568,421	BERMAN 95-NL-128	
SPECTROSCOPIC AND KINETIC STUDIES USING And Room Temperature Diode Lasers Physical Sciences Inc	USING ULTRA-SENSITIVE ABSORPTION Davis	Steven	R 36 08/02/95 \$299,849	BERMAN 95-NL-129	
THE NEUROCHEMICAL REGULATION OF CATECHOLAMINE E ADRENAL CHROMAFFIN CELLS Washington University	LAMINE SECRETION FROM SINGL Lingle	Christopher	N 60 08/02/95 \$979,209	HADDAD 95-NL-130	
ON THE ORIGIN OF METASTABILITY IN HIGH ENERGY Johns Hopkins University	ENERGY DENSITY MATERIALS Yarkony	David	R 36 21/02/95 \$343,869	BERMAN 95-NL-131	
ATMOSPHERIC EFFECTS OF ROCKET EXHAUST: (LATE/AEROSOL EMISSIONS Univ of Missouri	ROCKET EXHAUST: CHARACTERIZATION OF PARTICU Whitefield	Philip	N 21/02/95 \$495,935	BERHAN 95-NL-132	
CHEMCIAL REACTIONS OF NC1 (A1): GENERATION AND Kansas State University	TION AND REMOVAL Setser	Donald	N 36 21/02/95 \$255,000	BERMAN 95-NL-133	
SEMINCONDUCTOR AND GLASS COMPOSITES FOR NON-LINEAR, TICAL APPLICATIONS Univ of Florida Sim	NON-LINEAR, GUIDED-WAVE OP Simmons	Joseph	R 36 21/02/95 \$483,000	DELONG 95-NL-134	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/HONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
A SELF-ORGANIZING NEURAL NETHORK ECH PERCEPTION WITH APPLICATIONS Boston University	ARCHITECTURE FOR AUDITORY AND SPE TO ACOUSTIC AND OTHER TEMPORAL Grossberg	Stephen	N 36 21/02/95 \$566,965	TANGNEY 95-NL-135	
SOUMD PROCESSING IN A REVERBERANT WORLD	NT WORLD		R 36		
Loyola University	Yost	William	\$330,196	95-NL-136	
STRUCTURE AND FUNCTIONS OF THE HUMAN PREFRONTAL CORTEX	HUMAN PREFRONTAL CORTEX		90 N	0	
New York Academy of Sciences	Grafman	Jordan	000.5\$	95-NE-137	
ULTRA-THIN FILMS FOR OPTO-ELECTRONIC	RONIC APPLICATIONS		N 36		•
AFOSR/Far East	Ogata	Naoya	\$75,000	95-NL-138	
FOURTH CONFERENCE ON MOLECULAR REACTION DYNAMICS	REACTION DYNAMICS IN CONDENSED MATT		N 01	2 S	\$10,000
Univ of Utah	Wight	Charles	\$15,000	95-NL-139	\$10,000
THE LUMINANCE FLICKER-MOTION MECHANISM IS	CHANTSM IS REORGANIZED BY CHROMATIC		N 36	200	
Harvard University	StromeyerIII	Charles	\$524,500	95-NL-140	
CHEMISTRY INVOLVING THE PREPARATOR OF III-V COMPOUND SEMICONDUCTOR Duke University	INVOLVING THE PREPARATION, ISOLATION, AND IMMOBILIZATION COMPOUND SEMICONDUCTOR NANOCRYSTALS AND QUANTUM DOTS FEILY	Richard	R 01/03/95 \$541,251	DELONG 95-NL-141	
THE NEURAL BASIS AND FUNCTIONAL CHARACTERISTICS ON	CHARACTERISTICS OF PERIPHERAL VISI		N 24 06/03/95	HADDAD	
Oxford University	Blakemore	Colin	\$240,535	95-NL-142	
INFORMATION FOR OBJECT RECOGNITION AND SPATIAL	ION AND SPATIAL APPREHENSION		30		
Univ of South Florida	Sanocki	Thomas	\$220°500	1ANGNET 95-NL-143	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
TIME COURSE OF OBJECT RECOGNITION AND SCENE APPREHE	APPREHENSION		N 36		
Univ of South Florida	Sanocki	Thomas	07/03/95 \$299,905	TANGNEY 95-NL-144	
ACOUSTIC AND PHONETIC TRADING RELATIONS FOR NOISE	NOISE BAND SIGNALS		N 36		
Univ of Maryland School Of Med	Formby	Craig	08/03/95 \$672,441	TANGNEY 95-NL-145	
MONAURAL AND BINAURAL PROCESSING OF COMPLEX HAVEFOR	(HAVEFORMS		36		
Univ of Connecticut Health Center	Trahiotis	Constantine	\$302°508\$	TANGNET 95-NL-146	
CAGE AZABORANES AS HIGH ENERGY DENSITY FUELS	s,		36		
Univ of Georgia	King	Robert	13/03/95 \$378,583	8ERMAN 95-NL-147	
MATRIK ISOLATION STUDY OF BORON IN SOLID HYDROGEN	DROGEN		N 36		
Hy-Tech Research Corp.	Spanjers	Gregory	13/03/95 \$329 ₀ 821	BERNAN 95-NL-148	
AUDITORY SPECTRO-TEMPORAL PATTERN ANALYSIS			36		
Univ of North Carolina	налл	Joseph	13/03/95 \$416,494	TANGNEY 95-NL-149	
MURI95 MATERIALS AND PROCESSING AT THE NANOMETER SC	METER SCALE		09		
Univ of Maryland	Christou	Aristos	14/03/95	LEE 95-NL-150	
MURI95 MATERIALS AND PROCESSING AT THE NANOMETER	NETER SCALE		. 09 N		
Univ of Southern California	Dalton	Larry	14/03/95 \$931,049	LEE 95-NL-151	
MURI95 CENTER FOR NANOMETER-SCALE POLYMER FILMS AND	ILMS AND DEPOSITION		09 N		
Univ of Cincinnati	Boerio	F. James	14/03/95	LEE 95-NL-152	

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MURI95 SYNTHESIS AND SELF-ASSEMBLY OF	OF OPTICAL AND ELECTRONIC NANOS		09 N	U	
INUCIONED MAIENTALS Univ of Chicago	Guyot-Sionnest	Philippe	24676458	95-NL-153	
MURI95 NANOSCALE CHEMISTRY AND MOLECULAR MANÍPULATION FOR THE SYNT HESIS OF INTEGRATED SEMICONDUCTOR/ORGANIC NANOSTRUCTURE ARRAYS Univ of Southern California	ECULAR MANIPULATION FOR THE SYNT ORGANIC NANOSTRUCTURE ARRAYS MACHINEAR	Anupam	N 60 14/03/95 \$3,671,761	LEE 95-NL-154	
MURI95 MOLECULAR MATERIALS AT THE NANOMETER SCALE: ARACTERIZATION, QUANTUM PHENOMENOLOGY AND DEVICES Northwestern University	NANOMETER SCALE: FABRICATION, CH .ogy and devices Ratner	E E	N 60 14/03/95 \$7.710,903	LEE 95-NL-155	
MURI95 NANDSCALE DEVICES AND NOVEL	. ENGINEERED MATERIALS		09		
Uniw of Florida	Pearton	Stephen	14/03/95	DELONG 95-NL-156	
MURI95 NOVEL SYNTHESIS AND PROPERTIES OF	TIES OF NANOSTRUCTURED MATERIALS		9		·
Johns Hopkins University	Katz	Joseph	14/U3/Y5 \$5,622,302	DELON6 95-NL-157	
MURI95 WANDSTRUCTURED MATERIALS FOR COMMUNICATIONS PROCESSING	DR COMMUNICATIONS AND INFORMATION		N 60 14/03/95	DELONG	
Unity of Californias San Diego	2	Edward	*> * * * * * * * * * * * * * * * * * *	32-ML-138	
MURI95 NANOMETER SIZE PARTICLE PRODUCTION BY HNOLOGICAL MATERIALS	IDUCTION BY SPARK EROSION FOR TEC		N 60 14/03/95	DELONG	
Univ of California, San Diego	Berkowitz	Ami	\$5,639,238	95-NL-159	
MURI95 TAILORED NANDSTRUCTURED FILMS FOR TRIBOLOGI N RESISTANCE	.MS FOR TRIBOLOGICAL AND CORROSIO		N 60 14/03/95	DELONG	
Univ of Wisconsin	Aita	Carolyn	\$4,882,833	95-NL-160	
MURI95 SCIENCE AND TECHNOLOGY OF LAYERED NANOSTRUCTURES	AYERED NANOSTRUCTURES		09 N		
Northwestern University	Sproul	William	\$6,916,593	UELUNG 95-NL-161	

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NOVEL INORGANIC NF COMPOUNDS			36 36		
Fluorochem INC	Sace B	Kurt	15/03/95 \$425,784	BERMAN 95-ML-162	
SYNTHESES AND STRUCTURAL CHARACTERIZATION OF NORGANIC OXIDIZERS, FUEL AND HONOPROPELLANTS ACMASTER University	NEW LIGHT ELEMENTS, I Schrobilgen	Gary	N 36 15/03/95 \$629,685	BERMAN 95-NL-163	
SYNTHESIS AND CHARACTERIZATION OF HIGH ENERGY N OF OXY, PEROXY, AND PSEUDOCHALCOGENIDE ANALO Univ of Hyoming	ANIONS: STABILIZATIO GS OF NITRATE AND Bohle	D. Scott	N 24 16/03/95 \$249,712	BERMAN 95-NL-164	
NEUTRON SCATTERING STUDIES OF HIGH Pennsylvania State University	ENERGY DENSITY MATERIALS Sokol	Paul	N 36 21/03/95 \$338,004	BERMAN 95-NL-165	
SIMULATIONS OF MANY—BODY CHEMICAL DYNAMICS ABILITIES OF HIGH ENERGY DENSITY MATERIALS North Carolina State University	IN SOLIDS: PREDICTED ST Branner	Donald	N 36 21/03/95 \$261,907	BERMAN 95-NL-166	
ORGANIZATION OF THE 4TH CONFERENCE NAL CHEMISTRY Jackson State University	ON CURRENT TRENDS IN COMPUTATIO Leszczynski	Jerzy	N 12 22/03/95 \$5,000	BERHAN 95-NL-167	
PHOTONICS AND MOMLINEAR OPTICS WITH ALS State University of Nem York	OPTICS WITH MOLECULAR AND POLYMERIC MATERI York Prasad P	Paras	N 36 23/03/95 \$101,456	A LEE 95-NL-168	\$101,456 01/05/95 \$101,456
AN AASERT PROPOSAL FOR BASIC MATERIALS AND FABRICAT ADVANCED POLYMER OPTO-ELECTRONICS Univ of Southern California	ION STUDIES AND	William	36 23/03/95 \$132,435	A LEE 95-NL-169	\$132,435 15/05/95 \$132,435
QUANTUM DOT DEVICES AND OPTOELECTRO	DEVICES AND OPTOELECTRONIC DEVICE CHARACTERIZATION ONA	Nasser	N 36 23/03/95 \$233,780	A LEE 95-NL-170	\$233,780 15/05/95 \$233,780

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REPORT DATE 04/03/95

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POLYMER-BASED ELECTROOPTIC SWITCHING DEVICES FOR HIGH ONNECTS Univ of Texas at Austin	DEVICES FOR HIGH SPEED INTERC Chen	Ray	23/03/95 \$96,330	A LEE 95-NL-171	\$96,330 15/05/95 \$96,330
AN AASERT PROPOSAL FOR THE DEVELOPMENT OF ADVANCES POLYMERIC E-O M ODULATORS Univ of Southern California	NT OF ADVANCES POLYMERIC E-O M Dalton	Larry	N 36 24/03/95 \$135,000	A LEE 95-NL-172	\$135,000 15/05/95 \$135,000
NEW QUANTUH DOT WAVEGUIDES FOR NONLINEAR OPTICAL APPLICATIONS Univ of California, Los Angeles	NEAR OPTICAL APPLICATIONS Mackenzie	J. B.	N 36 24/03/95 \$96,000	A LEE 95-NL-173	\$96.000 15/05/95 \$96.000
Washington University	Stein	Paul S.6.	N 06 28/03/95 \$10,000	TANGNEY 95-NL-174	E CONTRACTOR OF THE CONTRACTOR

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COMPUTATIONAL ALGORITHMS FOR AERODYNAMIC ANALYSIS Multidisciplinary optimization Princeton University	SIS & DESIGN & Jameson	Antony	N 36 03/01/95 \$507,898	JACOBS 95-NM-142	\$168,023 01/04/95 \$507,897
FAST CPARALLEL) ALGORITHMS FOR SHPERICAL TRANSFORMS INTERACTIONS WITH APPLICATIONS IN ELECTRSTATICS, IMHARVARD University	SHPERICAL TRANSFORMS & MANY-BODY In Electrstatics, Image Proc & Chem Johnsson	S. Lennart	N 36 03/01/95 \$485,500	SCHRECK 95-NM-143	\$100,000 01/06/95 \$315,250
HIGH RESOLUTION MOLECULAR SPECTROSCOPY OF ATM North Carolina Central University	ATHOSPHERIC SPECIES Dutta	± .7	N 24 04/01/95 \$94,000	KROLL 95-NM-144	\$94,000 01/03/95 \$94,000
MURI94/MODELING & CONTROL OF ADVANCED CHEMICAL VAPO PROCESSES/CONTROL OF DEFECT IN MIXED IIIV COMPOUND North Carolina State University	. VAPOR DESPOSITION POUND HETEROSTRUCTORS Banks	H. Thomas	N 60 10/01/95 \$5,000,000	A JACOBS 95-NM-145	\$1,000,000 01/04/95 \$5,000,000
MURI94/INTEGRATED INTELLIGENT MODELING, DESIGN CRYSTAL GROWTH PROCESSES State University of New York	4 & CONTROL OF Prasad	Visheanath	N 60 10/01/95 \$6,685,763	A JACOBS 95-NM-146	\$1,000,000 01/05/95 \$5,000,000
MURI94/INTELLIGENT ELECTRONICS MANUFACTURING: MODELING & OF PLASMA PROCESSING Univ of Michigan	MODELING & CONTROL Khargonekar	Pramod	N 60 10/01/95 \$6,517,562	JACOBS 95-NM-147	
MURI94/MULTIVARIABLE CONTROL/SIMULATION/ORGANIZATION & SIGNAL Processing for the multigraphic process Stanford University	(ZATION & SIGNAL Kailath	Thomas	N 60 10/01/95 \$2,104,341	JACOBS 95-NM-148	
FEATURE-ORIENTED INAGE RECONSTRUCTION & AERO-OPTIC Turbulence Cognitech Inc	DPTIC METROLOGY IN Osher	Stanley	N 30 17/01/95 \$624,994	A NACHMAN 95-NM-149	\$124,999 01/04/95 \$174,995
INTELLIGENT DATABASES FOR NONDESTRUCTIVE EVALUATION OF CORROSION DAMAGE IN AIRCRAFT Dartmouth College	LUATION OF CORROSION Cybenko	George	N 36 20/01/95 \$599,756	LUGINBUHL 95-NM-150	\$242,537 01/04/95 \$599,756

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
SOLAR SEMIDIURNAL TIDES IN THE TROPOSPHERE			9E N		
Battelle Pacific Northwest Laboratories	Whiteman	C. David	\$54701/95	KROLL 95-NM-151	
MAGNETOSPHERIC NORPHOLOGY & DYNAMICS; SPECIFICAT	FICATION OF THE		R 36		
NEAR-EARTH OPERATIONAL ENVIRONMENT Johns Hopkins University	Meng	Ching	24/01/95 \$681,700	RADOSKI 95-NM-152	
COMBINED OPTICAL AND MICROWAVE EARTH AND AT	EARTH AND ATMOSPHERE SENSING		. O 3	•	\$5,000
Georgia Institute of Tech	Gasteeski	A .	\$5,01/95 \$5,000	KROLL 95-NM-153	\$5,000 \$5,000
DUAL-USE SMART ANTENNA PROCESSING: BLIND ADAPTIV	APTIVE BEAMFORMING, GPS		N 36	₹ .	\$17,875
AND VIELIUM SENSONS Purdue Research Foundation	Zoltosski	Michael	\$162,821	951-MM-154	\$162,821
PHASE RETRIEVAL PROBLEMS IN INVERSE SCATTERING	ING		Z 24		
Iowa State University	Sacks	Paul	\$1/01/95 \$54,695	NACHHAN 95-NM-155	
MULTIDIMENSIONAL PROBLEMS IN DYNAMIC PLASTICITY	CITY		N 90		
North Carolina State University	Shearer	Michael	\$402,494	NACHNAN 95-NM-156	
HIGH RESOLUTION 3D SIMULATION FOR SURFACTANT	T ENHANCED AQUIFER		36 36		
Duke University	Trangenstein	John	\$804,0232	95-NM-157	
TRANSMITTER/RECEIVER DESIGN FOR HULTIPATH COMMUNICATION CHANNELS	OMMUNICATION CHANNELS		N 24		
Univ of Virginia	Giannakis	Georgios	\$197,457	95-NR-158	
A COMPUTATIONAL AND PSYCHOPHYSICAL STUDY OF	SHAPE FOR 3-D OBJECT		36		
Kecushiitum Univ of Southern California	Biederman	Irving	\$417,879	BAKSHAN 95-NM-159	

TITLE TONT.) INSTITUTION	INVESTIGATOR		TYPE/HONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT ANT
ALGEBRAIC GEOMETRY AND COMPUTATIONAL ALGEBRAIC GEOM DATABASE INDEXING, IMAGE RECOGNITION, AND COMPUTER Texas A and M Research Foundation	NETRY FOR INAGE Vision Liler	Peter	N 36 02/02/95 \$421,108	HAKSHAN 95-NM-160	
INVESTIGATION OF THE RELATIONSHIP BETWEEN GROUND ELECTRIC FIELD, STORM STRUCTURE AND GROUND LIGHTNING ACTIVITY National Oceanic Atmosphere Admin		Vladislav	N 12 02/02/95 \$40,000	A Kroll 95-nm-161	\$30,000 01/04/95 \$30,000
PROGRAMMING WITH PROBABILITIES IN P(C) Houristicrits Rosearch Inc	Buntine	Yer	N 12 06/02/95 \$60,000	WAKSMAN 95-NM-162	
NEURO-GENETIC SEARCH ALGORITHM FOR L Univ of Toledo	FOR LOGIC SYNTHESIS SCHEDULING Serpen	Gursel	N 36 06/02/95 \$174,606	GLASSMAN 95-NM-163	
INPUT-DUTPUT METHODS IN NONLINEAR CONTROL: WITH SATURATION Univ of Minnesota	APPLICATION TO SYSTEMS Teel	Andres	N 36 06/02/95 \$290,493	JACOBS 95-NM-164	
A NEW PARALLEL OPTIMIZATION APPROACH TO Illinois Institute of Technology	SCHEDULING APPLICATIONS Ramesh	ů	N 36 07/02/95 \$239,763	GLASSMAN 95-NM-165	
RAPID THERMAL PROCESSING OF SEMICONDUCTORS AT HIGH North Carolina State University	VAPOR DENSITIES	<u>.</u>	R 12 07/02/95 \$349,703	A JACOBS 95-NM-166	\$349°703 15/05/95 \$349°703
VECTOR VALUED MALVAR WAVELTES Air Force Institute of Technology	Suter	Bruce	N 12 09/02/95 \$5,152	SJ06REN 95-WM-167	\$1,293 01/02/95 \$5,152
FERRITE PATCH ANTENNAS Electro Magnetic Applications Inc	H OH	Hoton	N 36 09/02/95 \$319,309	NACHMAN 95-NM-168	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED Amount	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
JOINT RESEARCH ON COMPUTATIONAL FLUID DYNAMICS CONTROL Unity of California, Los Angeles	CS AND FLUID FLOW	7	N 36 09/02/95 \$873,688	JACOBS 95-NH-169	
COMBINATORIAL PROPERTIES AND OPTIMAL DESIGNS Univ of Vermont	OF MULTICAST NETWORKS	Yuanyuan	N 36 15/02/95 \$104,817	GLASSMAN 95-NM-170	
PROCESS DESIGN, ANALYSIS AND SIMULATION FOR ALUMINUM EXTRUSION Technology Stanford University	ALUMINUM EXTRUSION Hughes	Thomas	N 36 15/02/95 \$667,090	GLASSHAN 95-NM-171	
FAST MULTIPOLE METHODS FOR ELECTROMAGNETIC C. Fast Mathematical Algorithms & Hrdwr Crp	CIRCUIT COMPUTATIONS Rokhlin	Vladimir	N 36 22/02/95 \$836,752	NACHRAN 95-NM-172	
FAST METHODS FOR ELECTROMAGNETIC MODELING Hughes Research Laboratories	Handzura	* *	N 24 22/02/95 \$2,164,788	NACHHAN 95-NM-173	
AN ENVIRONMENT FOR THE RAPID PROTOTYPING AND DEVELOPMENT Numerical programs and libraries for scientific computati Uniw of Illinois	DEVELOPMENT OF FIC COMPUTATION Padua	David	N 36 28/02/95 \$404,952	LUGINBUHL 95-NM-174	
AUTOMATED FINITE ELEMENT MODELING PROCEDURES FOR SIMULATIONS Reasseleer Polytechnic Institute	FOR HETAL FORMING Shephard	Mark	N 36 03/03/95 \$296,909	GLASSMAM 95-NM-175	
MATHEMATICAL PREDICTION OF THE PHYSICAL PROPERTIES AND MEDIA California Institute of Technology	ERTIES OF MATERIALS Bruno	75.00	N 36 03/03/95 \$283,303	NACHMAN 95-NN-176	
COMPUTING SCIENCE AND STATISTICS: SYMPOSIUM ON TH THEME: STATISTICS AND MANUFACTURING Interface Foundation of North America	ON THE INTERFACE; Heyer	Michael	N 03 03/03/95 \$56,500	SJOGREN 95-NA-177	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM HANAGER PROPOSAL #	INITIATE START DATE TOT AMI	
ANALYSIS, DESIGN, AND COMPUTATION OF ACTIVE	ACTIVE MATERIALS		36			
Univ of Minnesota	Luskin	Nitchell	03/03/95 \$401,501	NACHMAN 95-NM-178		
CENTER FOR PARALLEL OPTIMIZATION			R 36			
Univ of Hisconsin	Mangasarian	Olvi	03/03/95 \$358 ₀ 301	GLASSMAN 95-NM-179		
SYNCHRONIZATION AND CONTROL OF COUPLED LASER SYSTEM	R SYSTEMS		9 6			
Georgia Tech Research Corporation	Kennedy	R.A. Brian	\$305,401	NACHRAN 95-NM-180		
L1-BAND RECEIVERS: DESIGN, SIMULATION, AND	IMPLEMENTATION		N 12	4	\$50,000	
Ohio University	Braasch	Michael	\$50°000 \$50°000	95-NM-181	\$50,000	
HURI95 - BACK TO THE FUTURE WITH COMPUTATIONAL ELEC Em interactions with advanced materials and structu Univ of Arizona	ATIONAL ELECTROMAGNETICS: AND STRUCTURES Ziolkomski	Richard	N 36 13/03/95 \$7:560:226	NACHMAN 95-NM-182		
MURI95 - ADVANCED METHODS IN COMPUTATIONAL ELECTROM	ELECTROMAGENTICS		N 36			
Univ of Texas at Austin	0den	J. Tinsley	13/03/95 \$6,983,961	NACHRAN 95-NM-183		
HURI95 - ELECTROMAGNETIC INTERACTIONS MITH ELECTRIC Strictures	ELECTRICALLY LARGE		N 36			
Auburn University	Rao	Sadasiva	\$494249420	95-NH-184		
MURI95 - MATHEMATICAL & NUMERICAL METHODS FOR ELECTROMAGNETIC FIELDS	OR ANALYSIS & DESIGN OF		N 36 13/03/95	NACHMAN		
Univ of Delamare	Kleinman	Ralph	\$7,124,298	95-NN-185		
MURI95 - FAST TECHNIQUES FOR ANALYZING VERY MIDEBAND ELECTROMAGNIC INTERACTIONS IN COMPLICATED THREE DIMENSIONAL STRUCTURES Massachusetts Institute of Technology	ERY MIDEBAND ELECTROMAG- Dimensional structures White	Jacob	N 13/03/95 \$5,203,118	NACHMAN 95-NM-186		

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TITLE (CONT.) INSTITUTION INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	PROGRAM MANAGER PROPOSAL #	INITIATE Start date Tot amt
MURI95 - ALGORITHMS FOR LARGE ELECTROMAGNETIC SIMULATIONS OF Complex Structures including time-varying systems & nonlinear sys Univ of Colorado	John	N 36 13/03/95 \$5,544,741	NACHMAN 95-NM-187	
MURI95 - CENTER FOR COMPUTATIONAL ELECTROMAGNETICS OF COMPLEX Structures Univ of Illinois	55 20 21	N 13/03/95 \$7,590,638	NACHMAN 95-NM-188	
MURI95 - DEVELOPMENT OF COMPUTATIONAL ELECTROMAGNETICS FOR SOLVING Scattering, Radiation & Electromagnetic environmental problems Michita State University	Rasesh	N 13/03/95 \$4,854,397	NACHMAN 95-NM-189	
MURI95 — ELECTROMAGNETIC CODE DEVELOPMENT PROGRAM Obio State Univ Research Foundation Burnside	Eal ter	N 36 13/03/95 \$7°455°778	NACHMAN 95-NM-190	
MURI95 - HIGH PERFORMANCE, MULTI-APPLICATION COMPUTATIONAL ELECTROMAGNETICS MODELING AND SIMULATION Northeastern University	Carey	N 13/03/95 \$2,372,558	NACHMAN 95-NM-191	
MURI95 - CENTER FOR COMPUTATIONAL MAGNETICS Univ of Michigan	John	N 36 13/03/95 \$6,076,900	NACHMAN 95-NM-192	
MURI95 - RESEARCH IN COMPUTATIONAL ELECTROMAGNETICS: ANALYSIS, Innovative Methods, a suite of functional codes Clemson University	Chalmers	N 13/03/95 \$7,751,353	NACHMAN 95-NM-193	·
MURI95 - IMAGE FEATURES FOR ATR; REDUCED SIGNATURE TARGET RECOGNITION N.Y. U. Courant Institute Math Science Hummel	Robert	N 36 14/03/95 \$5,251,451	SJOGREN 95-NM-194	
MURI95 - DESIGN AND EVALUATION OF A PROTOTYPE MULTI-SENSOR TARGET Detection and recognition system Univ of Massachusetts	Edward	N 36 14/03/95 \$8,022,874	SJOGREN 95-NM-195	

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TITLE (CONT.) INSTITUTION INSTITUTION	VESTIGATOR		TYPE/MONTHS Received Amount	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMI
MURI95 - A COMPREHENSIVE AND INTEGRATED APPROACH TO SIGNATURE TARGET RECOGNITION BOSTON UNIVERSITY	O REDUCED	David	N 36 14/03/95 \$9,465,298	SJOGREN 95-NM-196	
MURI95 - MULTISCALE, MULTISENSOR, REAL-TIME SYSTEMS Signature target recognition Univ of Maryland Che	IS FOR REDUCED ellappa	es Be Cr	N 36 14/03/95 \$5,550,000	SJ06REN 95-NM-197	
MURI95 - OPPORTUNISTIC VISION/SENSING SYSTEMS FOR Recognition Univ of Illinois	R AUTONATIC TARGET Huang	Thomas	N 36 14/03/95 \$8,375,781	SJ0GREN 95-NM-198	
MURI95 - REDUCED SIGNATURE TARGET RECOGNITION USING Invariants Univ of Cincinnati	IG PETRI NETS AND	Ernest	N 36 14/03/95 \$1,347,922	SJOGREN 95-NM-199	
MURI95 - REDUCED SIGNATURE TARGET RECOGNITION Morcester Polytechnic Institute Cy	Cyganski	David	N 36 14/03/95 \$3,176,453	SJOGREN 95-NR-200	
MURI95 - REDUCED SIGNATURE TARGET RECOGNITION BY EI Analysis of Range-Azimuth Ladar Data Illinois Institute of Technology	IGENVALUE ark	Henry	N 36 14/03/95 \$1,355,658	SJOGREN 95-NM-201	
MURI95 - REDUCED SIGNATURE TARGET RECOGNITION Syracuse University	rshney	Powerd	N 36 14/03/95 \$7,113,446	SJOGREN 95-NM-202	
MURI95 - REDUCED SIGNAL TARGET RECOGNITION THEORY COMMERCIAL APPLICATIONS Texas Engineering Experiment Station Ku	Y FOR MILITARY AND Kurdila	Andres	N 36 14/03/95 \$2,129,570	SJOGREN 95-NM-203	
MULTISTRATEGY LEARNING FOR COMPUTER VISION Univ of California, Riverside	Bhanu	Bir	N 23/03/95 \$670,864	A HAKSMAN 95-NM-204	\$200,000 01/07/95 \$670,864

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PROPOSAL STATUS REPORT (1 JAN 95 - 31 MAR 95) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

THE CONT. THE CONT. THE CONT. THE STIGATOR Same and though a process of the state of t	INITIATE START DATE TOT ANT \$420,000 01/07/95 \$1,069,022	\$208,046 01/07/95 \$388,046			
INVESTIGATOR OBJECT DESCRIPTION AND RECOGNITION IN COMPLEX ENVERONMENTS Unity of Southern California Newatia Ramant MACHINE VISION THROUGH MACHINE LEARNING George Mason Unityorsity MATHEMATICS DESIGN AND COMPUTATION OF ACTIVE MATCHAILS LOCAL TOWNORMARY MATHEMATICAL MODELS IN CRACKS DETECTION MATHEMATICAL MODELS IN CRACKS DETECTION MATHEMATICAL MODELS IN CRACKS DETECTION MATHEMATICAL MODELS AND FRAL-TIME ISSUES IN HETEROGENEOUS DISTRIBUTED STSTEMS AND ENBEDDED SYSTEMS PLACETORIOUS AND FALL TOWNORMARY MACHINE MATHEMATICAL MODELS AND FRAL-TIME ISSUES IN HETEROGENEOUS DISTRIBUTED STSTEMS AND ENBEDDED SYSTEMS PLACETORIOUS OF THICK COMPOSITE PLATE AND SHELL FINITE ELEMENTS MARKETMED THRORY FOR THICK COMPOSITE PLATE AND SHELL FINITE ELEMENTS MARKETMED THROWS FOR THICK COMPOSITE PLATE AND SHELL FINITE ELEMENTS	STATUS PROGRAM MANAGE! PROPOSAL # A WAKSMAM 95-NM-205	MAKSMAN 95-NM-206 NACHMAN 95-NM-207	KROLL 95-NM-208 Sjogren 95-NM-209	NACHMAN 95-NM-210 LUGINBUHL 95-NM-211	SJOGREN 95-NM-212 NACHMAN 95-NM-213
INVESTIGATOR DBJECT DESCRIPTION AND RECOGNITION IN COMPLEX ENVIRONMENTS Univ of Southern California Nevatia MACHINE VISION THROUGH MACHINE LEARNING George Mason University ANALYSIS, DESIGN AND COMPUTATION OF ACTIVE MATERIALS Carnegis—Mailon University Mational Center for Atmospheric Research Mational Center for Atmospheric Research Mational Center for Atmospheric Research MATHEMATICAL HODELS IN CRACKS DETECTION MICHITA State University MATHEMATICAL HODELS IN CRACKS DETECTION MICHITA State University MATHEMATICAL HODELS IN CRACKS DETECTION MICHITA STATE University MEW MODELS AND FAST ALCORITHMS FOR NATURAL AND URBAN CLUTTER WITH APPLICATIONS TO ATD Brown University MEW MODELS AND FAST ALCORITHMS FOR NATURAL AND URBAN CLUTTER WITH APPLICATIONS TO ATD Brown University MEFINED THEORY FOR THICK COMPOSITE PLATE AND SHELL FINITE ELEMENTS Mayone State University Sutyrin	TYPE/MONTHS RECEIVED AMOUNT N 24 28/03/95 \$1,069,022	M 24 29/03/95 \$388,046 \$198,046 8 36 29/03/95 \$198,213	N 36 29/03/95 \$329,140 N 36 29/03/95 \$182,177	N 24 29/03/95 \$106,821 N 36 30/03/95 \$213,164	N 18 30/03/95 \$119,500 N 36 30/03/95 \$308,107
INVESTIGAT INVESTIGAT INVESTIGAT OBJECT DESCRIPTION AND RECOGNITION IN COMPLEX ENVIRONMENTS Univ of Southern California MACHINE VISION THROUGH MACHINE LEARNING George Mason University MACHINE VISION THROUGH MACHINE LEARNING George Mason University MATIONALYSIS, DESIGN AND COMPUTATION OF ACTIVE MATERIALS Carnegie-Nellon University MATIONAL Contar for Atmospheric Research MATIONAL COLL TONGERAPHIC DATA Kansas State University MATHEMATICAL HODELS IN CRACKS DEFECTION MICHITA State University FAULT-TOLERANCE AND REAL-TIME ISSUES IN HETEROGENEOUS DIST SYSTEMS AND EMBEDDED SYSTEMS MACHINE AND EMBEDDED SYSTEMS METINES TO ATD Brown University REFINED THEORY FOR THICK COMPOSITE PLATE AND SHELL FINITE MAYNE STATE UNiversity REFINED THEORY FOR THICK COMPOSITE PLATE AND SHELL FINITE	Ramakant	Ryszard David.	Ying-Hwa Alexander	Victor	David
	TITLE (CONT.) INSTITUTION OBJECT DESCRIPTION AND RECOGNITION IN COMPLEX EN	MACHINE VISION THROUGH MACHINE LEARNING George Mason University ANALYSIS, DESIGN AND COMPUTATION OF ACTIVE MATER Carnegie—Wellon University	IMPACT OF DATA LOSS ON PREDICTABILITY National Center for Atmospheric Research NEW METHODS FOR FINDING VALUES OF THE JUMPS OF A LOCAL TOMOGRAPHIC DATA Kansas State University	MATHEMATICAL MODELS IN CRACKS DETECTION Wichita State University FAULT-TOLERANCE AND REAL-TIME ISSUES IN HETEROGENEOUS SYSTEMS AND EMBEDDED SYSTEMS Princeton University	NEW MODELS AND FAST ALGORITHMS FOR NATURAL AND URBAN CLUTT APPLICATIONS TO ATD Brown University Refined Theory For Thick Composite Plate and Shell Finite Wayne State University

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PROPOSAL STATUS REPORT (1 JAN 95 - 31 MAR 95) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

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O (TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE Start date Tot ami
0 6	THE CONTROL AND DYNAMICS OF OPTICAL SOLITON SYSTEMS AND SEMICONDUCTOR LASERS Northwestern University	STEMS AND Kath	Hilliam	36 30/03/95 \$497.415	NACHMAN 95-NM-214	
0 0	MULTIDIMENSIONAL PROBLEMS IN DYNAMIC PLASTICITY Duke University	Y Schaeffer	David	N 30/03/95 \$1,363,715	NACHMAN 95-NM-215	
్	PERTURBATION PROBLEMS IN FLUID DYNAMICS N.Y. U. Courant Institute Math Science	Ting	Γn	N 30/03/95 \$265 ₀ 890	NACHHAN 95-NM-216	
್ಯ ಅ	Servery High Dimensionality automatic programming Study (). Martin Marietta Electronics & Missiles G Stiff	Stirman	Charles	36 80/03/95 30/03/95 \$0/03/95	NACHHAN 95-NM-217	And the second sections of
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